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Before the COPYRIGHT ROYALTY JUDGES Washington, D.C.

IN THE MATTER OF: : Docket No. 2012-6 CRB CD 2004-Distribution of the 2004- : 2009 (PHASE II) 2009 Cable Royalty Funds :

IN THE MATTER OF.

Distribution of the 1999- : 2012-7 CRB SD 1999-2009 Satellite Royalty Funds

: Docket No. : 2009 (PHASE II)

VOLUME V

Friday, April 17, 2015 Room LM-408 Madison Building Library of Congress 101 Independence Avenue, S.W. Washington, D.C.

The above-entitled matter came on for hearing, pursuant to notice, at 9:11 a.m.

BEFORE:

THE HONORABLE SUZANNE M. BARNETT, Copyright Royalty Judge THE HONORABLE JESSE FEDER. Copyright Royalty Judge

THE HONORABLE DAVID R. STRICKLER, Copyright Royalty Judge

On Behalf of the Motion Picture Association of America:

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EXHIBIT NO. DESCRIPTION MARK RECD 643 Excerpt of Dr. Laura Robinson's 50 50 Testimony From 1999 Case TPG 249 Direct Statement of Mr. Raul Galaz regarding cable 139 249A Direct Statement of Mr. Raul Galaz regarding satellite -- 139 250 Amended Direct Statement of Mr. Raul Galaz for cable 139 250A Amended Direct Statement of

Mr. Raul Galaz for satellite

Neal R. Gross and Co., Inc. Washington DC

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	EXHIE	BIT NO. DESCRIPTION	MARK RECD	1	get, he was asking you about the midpoint range	
	IPG			2	that you calculated for IPGs profit share.	
	287	Direct Statement of Dr. Laura Robinson regarding cable	139	3	And, again, I just wanted to make sure	
		nozinon rojazenig edare		4	and the idea was for each year you calculated	
	287A	Direct Statement of Dr. Laura				
	288	Robinson regarding satellite Amended Direct Statement of	139	5	individual estimates of royalty share. And then	
	200	Dr. Laura Robinson for cable	139	6	you sort of multiplied that individual value,	
				7	unit value if you will, by the coefficients.	
	288A	Amended Direct Statement of Dr. Laura Robinson for		8	So you get these values and then you	
		satellite	139	9	pick the highest and the lowest, that's the range	
				10	of shares and then you come at a midpoint, right?	
	251	Rebuttal of Mr. Raul Galaz regarding SDC	139	11	Is that an accurate description of what you do?	
	252	Rebuttal of Mr. Raul Galaz	133			
		regarding MPAA	139	12	JUDGE FEDER: You can look at Exhibit	
	289	Rebuttal of Dr. Laura Robinson		13	260 and 261, Mr	
	209	regarding MPAA	139	14	MR. OLANIRAN: Thank you, Your Honor.	
	290	Rebuttal of Dr. Laura Robinson		15	They did not get tabbed, they were new exhibits.	
		regarding SDC	139	16	THE WITNESS: Yes, I mean I recall the	
	MPAA			17	exhibit. I think it was a long question and to	
	379	Regression Robustness checks		18	some degree you were characterizing it. But the	
		by Dr. Jeffrey Gray	153 156	19	way you described the computations is correct.	
				20		
					And the midpoint is simply the midpoint, I don't	
				21	know what you mean by selecting. It's computed.	
				22	MR. OLANIRAN: My mistake, you're	
			······		······································	^
			6			8
1		P-R-O-C-E-E-D-I-N-G-S	6	1	absolutely right. It's a basic mathematical	8
1 2		P-R-O-C-E-E-D-I-N-G-S	6 (9:11 a.m.)	1 2	absolutely right. It's a basic mathematical midpoint between two numbers?	8
		P-R-O-C-E-E-D-I-N-G-S  JUDGE BARNETT: Good morning	(9:11 a.m.)	ŀ		8
2	to le		(9:11 a.m.) ng. We have	2	midpoint between two numbers?	8
2		JUDGE BARNETT: Good mornin	(9:11 a.m.) ng. We have	2	midpoint between two numbers?  THE WITNESS: Yes.	8
2 3 4		JUDGE BARNETT: Good morning earn not to laugh, it just encourage	(9:11 a.m.) ng. We have ges him.	3 4	midpoint between two numbers?  THE WITNESS: Yes.  BY MR. OLANIRAN:	8
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11 JUDGE BARNETT: Look at like 2 of 2 at conducting any type of valuation, the approach is to identify various methods, to compute value 2 the back. based on the methods and to look for consistency MR. BOYDSTON: Yes. And they're not, they don't have tabs on them yet so they -in convergence and robustness. 4 So I would say that all of it needs to JUDGE BARNETT: Oh, they're not be looked at together. And at the same time it 6 labeled. I see. may be appropriate to choose one approach in the MR. BOYDSTON: Yes, they're labeled context of the information provided by all of it. 8 and they have the numbers in the upper right-hand Well that doesn't really answer my 9 corner. question. My question is whether or not you're THE WITNESS: I see. I understand. 10 10 recommending that any of them is independently 11 Oh God, that binder just broke. Oh dear. 11 12 MR. OLANIRAN: May I approach, Your 12 reliable. So let me ask the question again. Is Honor? any one of these three independently reliable? JUDGE BARNETT: You may. I don't think you mean, I don't think 15 MR. BOYDSTON: In the top right-hand your use of the word independent means what it corner you'll see they put a number --THE WITNESS: Yes, I got it. 17 17 18 MR. OLANIRAN: And then --Q Okay. Let me elaborate on that. Can 18 19 THE WITNESS: I lost the integrity of the judges rely on any one of these three factors 20 the binder but I found the document. 20 to allocate royalties to IPG and MPAA? Okay. So --21 21 I'm distinguishing between having BY MR. OLANIRAN: never done the -- Suppose you just picked one and 22 22 10 12 You are at 260, right? had never done the analysis on the others. That 0 2 I'm at 260. doesn't give you the same information as picking Got it. Let's just use '04 as an that one when you have done the analysis of the 4 example. 5 Okav. I understand. But I mean --6 Okay. And there you have Column A is So I don't know what you mean. Do you the IPG's share of hours. Then B, C and D are mean independence in the first sense? Like I 8 Time of Day, Fees Paid and Distance Respectively. never looked at anything else and it's 9 And then Column D, Column E, I'm sorry, is the 9 independently reliable that way? 10 range. That range essentially is what you 10 I think I'll rephrase the question. 11 calculated for time of day and what you 11 Can the Judges rely on any one of these to 12 calculated for fees paid, is that correct? allocate royalties? Can they pick one? 12 In a sense it's yes. But essentially 13 MR. BOYDSTON: Your Honor, I think 13 14 what that range is is taking the lowest possible 14 it's asked and answered. 15 number you can get from that row and the highest JUDGE BARNETT: Well, overruled, I'm 15 possible number you could get from that row and still a little vaque. 16 17 identifying the range. 17 THE WITNESS: Each of these three 18 Exactly. So my question is for B, C 18 provide different measurements that can be looked 19 and D, are you testifying that each one, any one at independently. And they can, and by 20 of this is independently reliable for allocation independently I mean in the context of the whole 21 of royalties? 21 chart. The whole chart exists, when we are 22 So as a general principle, when 22 looking at this chart you could look at one of

15 13 something that I would, there's prediction of them and say that's the one I think makes sense. 2 JUDGE STRICKLER: Let me ask a something to look for a confidence interval. I'm not predicting, for example, the number of 3 question that is related perhaps to Mr. Olaniran's question. distant viewers and then have a confidence interval around that prediction. If you only had one of the columns, B, C or D. Say B for argument's sake, and you So your answer is no you did not? I'm not sure I understand the context hadn't done the work for C or D, would you independently rely on B, in my example, the of what it would mean to calculate a confidence numbers in Column B, could we the Judges rely 9 interval around these numbers. just on the numbers in one column? In the end, 10 So you did not? That is the answer? in the absence of any analysis such that Columns 11 I guess the answer is no. Yes. Thank you. Dr. Robinson, I would 12 C and D, just didn't exist? 12 really appreciate it, we are sort of pressed for 1.3 THE WITNESS: As a general principle 13 I do not think it is a good idea to conduct time today, and I would really appreciate direct 14 14 valuation using just one metric with no other answers to my questions. I understand that 15 15 metrics around. So as an overarching principle sometimes you have to explain a little bit more. 16 16 17 kind of regardless of which method it was I I really do. But in the interest of the other 17 wouldn't be content with just one estimate. 18 18 parties that also have to put on that also have 19 JUDGE STRICKLER: And you would apply to put up witnesses today we have to try to be as 19 expedient as possible. So I would --20 that overarching principle in response to my 20 21 question? 21 MR. BOYDSTON: Your Honor, this isn't THE WITNESS: Yes. a question. I think that this is for you to tell JUDGE STRICKLER: But if I understood her anyway. 1 1 your answer to Mr. Olaniran's question before you JUDGE BARNETT: Sustained. Just ask your questions, Mr. Olaniran. were saying that you could, in this context, rely BY MR. OLANIRAN: on the numbers in just one column because you

have the other two columns to bracket it or give 6 it some sort of context. Is that what you were saving? THE WITNESS: Yes. 8 JUDGE STRICKLER: Thank you. 9 10 BY MR. OLANIRAN: Now, did you calculate confidence 11 intervals for these estimates? 12 13 Well --Let's start with a yes or no first and 14 then if you want to proceed to explain that that would really help. 17 I don't think -- These are just 18 estimates. These are computations from the data. 19 I understand that. My question is did 20 you or did you not calculate confidence

Well I'm not predicting the value of

16 You're very critical in your rebuttal 5 testimony with regard to the presence of zero values and in quarter hours in the Nielsen data, right? 9 Α 10 0 And you think in general instances those zero values in the Nielsen data are bad 11 because they're too high and they make Nielsen 12 13 data unreliable, that's the general argument, right? 14 I wouldn't put it quite like that. 16 How would you put it? 17 I would put it that the incidence of 18 zero viewing is so high that it calls into 19 question whether they are in fact they are in 20 fact accurate zeros, i.e., no one was viewing. 21 Or whether they are simply reflective of a bad estimate. I really don't know the standard

intervals.

21

2.0

17 any quarter hour there will nine zeros, that's errors. So you're not saying that they're how --0 For that subscriber. unreliable, you're saying it calls into question whether or not they're reliable. Is that a fair Right. Nine zeros for that subscriber. way to describe what you're saying? Well the numbers are so great, and by And so in the real world the attempt great I mean there are so many zeros, and the standard error is increasing as you add all of is to sort of predict how the population behaves these, as you add them together, the standard error of some of the variables in increasing. So Okav. we have these large unmeasured standard errors And so you would need more sample and a huge number of zeros. So it seriously points to actually aggregate, as you were saying, calls into question the validity of the data. the entire viewership to a particular station, to 13 14 And let me make sure I understand what a particular program or a --15 you mean by zero viewing. So assume that it's 15 Let me just say something. That the 16 one household of one person and they subscribe to 16 nine zeros you just described have nothing to do with the incidence of zeros in the data. It's 17 a CSO and it's delivering let's say ten channels. 17 18 Right? And then assume that the subscriber 18 unrelated. watches every quarter hour of the day, every, all 19 19 0 Why is that? 20 96 of them, right? Because you're talking about 20 21 And then, so if the subscriber, if subscriber level data which we don't have. What 21 there are ten channels available and the we have is station level data. And the station

18

subscriber can watch only one channel at a time

watching one quarter hour, because there are nine other channels, there will be zero on those nine

For that subscriber for that quarter

And so assume that it was the only

But the data isn't at a subscriber

I understand that. It's at the

Let's finish my hypothetical. But

and at any time whenever that subscriber is

channels, correct? For that subscriber.

hour, correct?

Α

percent of zeros, correct?

level. It's at the station level.

subscriber viewings, is it not?

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For that subscriber.

channel in the universe, if you will, that's 90

station level because that's an aggregation of

But let's finish my --

back to my hypothetical. If a subscriber

I wouldn't put it that way.

receiving ten channels is watching one of them at

zero viewing means in that quarter hour nobody was viewing that station.

Q Well in my example no one would be
viewing that station because they're watching
something else.

A True. But a station has subscribers
from different CSOs maybe watching a station, so

9 Q Right. Or not.

10 A Or not. But a station has, there's
11 not a one-to-one mapping between stations and

12 CSOs obviously. Right?

13 Q Right.

A So the nine zeros that you just

described, we don't have subscriber level data so

you can't compare the zeros that we're seeing

there as to whether or not they seem reasonable

18 based on that way of thinking about it.

19 Q But it is in fact the subscriber level 20 data that grosses up to the station's viewing or 21 non-viewing numbers is it not?

The stations would be the sum of the

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23 21 -- The station viewing would be the sum of the 1 station. subscribers to all the different CEOs, yes. BY MR. OLANIRAN: And in your analysis did you endeavor All right. And if you extrapolate my to find out whether that meant someone, hypothetical is actually the aggregation of all subscribers were watching something else other of the viewing in that viewing and the clustering than the station? really of the viewing that end up being, that I would love to have subscriber level make up the estimates, right? data that would allow me to follow a subscriber's I think that's correct. viewing choices. I have not seen that data. And whether you have zero values or whether you actually have recorded viewing, 10 0 Okay. So you can't tell whether that 10 in fact was the --11 they're all sample points that become a part of 11 12 the estimation, correct? 12 Α I'm sorry. I can't tell whether, what 13 Sorry, what are the sample points? was the question? 14 I'm saying whether you have, the You can't tell whether it was the case quarter hours are the sample points, so whether that the zeros were the result of subscribers 15 16 it's a zero value or a recorded viewing they're 16 watching something else other than that station. all aggregated up. And each of them is a sample I think I already explained what I perceive the zeros to be. It's not subscriber point that gets aggregated out to get --19 A quarter hour observation is a level data. You see a zero that means the people in the Nielsen sample were not being recorded as summing across -- Excuse me. A quarter hour 21 observation reflects in the Nielsen sample, how watching that station. Individuals have many people were recorded as watching that subscriber statuses. 22 24 station. You say in your testimony that you Or not. Or people -reviewed Mr. Lindstrom's testimony in the 0003 But which could be zero. proceeding. Right. Α Yes. Yes. And you also reviewed his testimony in And it's the sum of what ends up as this proceeding, correct? viewing data is an aggregation of viewing and non-viewing. Okay. And you read his discussion 9 Nielsen has identified various 9 about zero values in those two testimonies, households and they're collecting the data from correct? 11 the households. And if anybody was -- whatever 12 their watching behavior of that sample is is 12 Did you look at his oral testimony 13 what's showing up in that quarter hour. 13 also? 14 And your interpretation of viewing is 14 А You mean like from the transcript? 15 that no one is watching, right? 15 Yes. JUDGE STRICKLER: Your interpretation I think I did but it wasn't recently. 16 16 Did you look at in preparation of your 17 of zero. 17 rebuttal testimony? 18 MR. OLANIRAN: I'm sorry. Of zeros, 18 19 I just don't recall. 19 thank you. THE WITNESS: My interpretation of Okay. Now you don't identify a 20 20 21 zero is that the Nielsen sample indicates that 21 benchmark for what should be considered a high

level of zero values do you?

nobody recorded that they were watching that

27 25 No I do not. on Nielsen data as an expert? THE WITNESS: Yes. And you don't establish a benchmark JUDGE STRICKLER: Did you have the for what should be considered low, do you? standard errors when you relied on the Nielsen No. And you don't, you haven't established data? a benchmark that would be considered an average. THE WITNESS: I believe the answer to that is yes. right? I don't have the data to do those JUDGE STRICKLER: How many times has that occurred in your professional capacity where 9 things. 10 Okav. In fact, you're not aware of 10 you've relied on Nielsen data and had the any industry standard that establishes what's standard errors? 11 THE WITNESS: So I'm not necessarily 12 high or low or average zero viewing in the 12 Nielsen data, are you? 13 talking about getting or testifying to it, but This is a data issue with which I have simply doing the work. a lot of experience. Whenever you're working 15 JUDGE STRICKLER: As an expert, right. with data you need to look at the data, you need 16 THE WITNESS: Right. 16 17 to understand the data. You need to look for 17 JUDGE STRICKLER: Not necessarily as 18 issues. And the first thing you do when you look 18 a testifying witness, but I understand. 19 in the data is you literally look at the data. 1.9 THE WITNESS: I don't know, a dozen. 20 So this is just a standard process. 20 JUDGE STRICKLER: And each time you You look at the data. You have these samples, 21 21 had the standard errors? you know that there's a rare event issue. You're 22 THE WITNESS: Oh, you're asking me if 26 28 not given, well I was not given, the standard I never had, that there were times when I didn't? errors from the Nielsen methodology so I don't JUDGE STRICKLER: Yes, I don't know have the standard errors and I see that the which one is the null hypothesis. majority of the, a large majority of the THE WITNESS: I would say usually 5 observations are zero, it calls into question. there are standard errors. I don't know the answer because we JUDGE STRICKLER: And there are times don't have the information. But certainly any you've worked with it without the standard analyst would be remiss not to notice that and 8 errors? If it's usually it wasn't always. 9 not to question it. 9 THE WITNESS: There may have been. I 10 You said you worked with a lot of 10 don't recall offhand, besides this case. Because 11 data. 11 as I understand it this was like a specialized 12 Α Yes. 12 study. 13 Do you have specific experience in JUDGE STRICKLER: So the answer to my 13 14 looking at Nielsen data? 14 question, whether you relied an expert on Nielsen 15 I have looked at Nielsen data. I've data without standard errors, your answer to my 15 16 looked at all kinds of internet traffic data. question is you don't recall? 16 17 I've looked at many, many, many kinds of data. 17 THE WITNESS: Right. Usually there 18 JUDGE STRICKLER: When you've looked are standard errors, I certainly recall relying 18 19 at Nielsen data, you've done it, you were ruled 19 on it when there was standard errors. Whether or 20 as an expert? not I've ever relied on it when there weren't I'm 21 THE WITNESS: Yes. not sure. 22 JUDGE STRICKLER: And have you relied JUDGE STRICKLER: And how did you --

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     who provided you with the Nielsen standard error
                 THE WITNESS: It was provided with the
     data when I got it.
                 JUDGE STRICKLER: Directly from
    Nielsen or from some other intermediary you
     worked for?
                 THE WITNESS: Well, not exactly sure
     what that means but it was --
                 JUDGE STRICKLER: Well who supplied --
10
                 THE WITNESS: -- Nielsen through I
11
    think it was Nielsen. I don't recall the path
12
13
     that was provided by Nielsen, perhaps through an
     intermediary.
14
15
           BY MR. OLANIRAN:
16
                 Okay. But in any of those instances,
17
     just to follow up, in any of those instances that
     you worked with viewing, did you work with
     distant viewing?
                 I don't think any of those were for
21
     distant viewing, no.
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Okay. So you don't have specific

I have any exhibits showing the distribution over the day and time. I think the answer is no. JUDGE STRICKLER: So you didn't do that type of an analysis? THE WITNESS: I certainly remember from, you know, looking and analyzing the data that there's, you know, lower viewership numbers and greater zeros. Well, actually, you know, I don't know. I don't remember. So no, I don't know the answer to that 10 JUDGE STRICKLER: Did you think about 11 doing such an analysis and then decide not to or 12 it never entered your mind to do that kind of 13 14 analysis? THE WITNESS: No. I didn't think 15 about it. 16 17 JUDGE STRICKLER: Did you try to see 18 correlations or regression with regard to, how many variables based one a location, the channel 20 location, and number of zeros?

In other words whether zeros were

showing up at low numbered channels, like

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32 channels 2, 4, 5, 7, that type of thing. Whether they were showing up on channels 145, 62, higher THE WITNESS: Right, I did do a station-level analysis looking at the zeros by station and looking also at program titles to see whether or not there were some stations where they, you know, did not typically get zero viewing but other stations where they always got zero viewing. So that is included in here. JUDGE STRICKLER: Okay. And did you see any kind of a relationship or pattern showing that certain, again, my question wasn't -- Let me You did your analysis by station. Did you then take the next step which goes to my question, which is to determine whether or not a station that had disproportionately large numbers of zero viewing data points was also high up on the channel locator, such that it had a high channel number rather than a low channel number? THE WITNESS: That would be

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2 In your preparation for this proceeding, did you attempt to talk to anyone at Nielsen about the zero viewing issue? Α No. Okav. JUDGE STRICKLER: Staying with zero viewing for a second, since this is probably as 9 good a time as any to raise it, did you try to do 10 any kind of a correlation or regression with 11 regard to the data that you did have to see where 12 the viewing occurred? 13 And let me be more specific, ask you 14 a couple questions because this came up in 15 testimony in other proceedings about zero 16 viewing. 17 Did you try to see if there was any 18 kind of relationship between the zeros and 19 whether or not he zeros occurred during the nighttime hours, say between midnight and 6:00

a.m., or some other overnight periods?

THE WITNESS: Just trying to think if

experience -- Strike that.

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33 35 discernible from looking at the exhibits, but I contexts. JUDGE BARNETT: Did you understand the did not focus on that. I did not do that second 2 question? THE WITNESS: Well given that you're JUDGE STRICKLER: And last question in this area. Did you do any kind of correlation the attorney for the MPAA, I assume you're talking about Dr. Gray's use of local ratings in analysis or regression to see whether or not the zero viewing that occurred in a particular his regression? distant location for any particular program MR. OLANIRAN: The local ratings data occurred at a time when that program was being in general, as provided by Nielsen. aired as either simultaneously or not in that 10 JUDGE BARNETT: And the question about same local market? Do you understand my 11 11 those was? 12 question? 12 MR. OLANIRAN: The question is whether 13 THE WITNESS: I understand the or not she's making an issue zero viewing with 14 question and the answer is no. 14 respect to the local ratings data. THE WITNESS: Oh, I understand the JUDGE STRICKLER: No, you didn't do 16 that analysis? question. I did not do analysis of zero viewing 17 THE WITNESS: Those are all great in the local ratings. MR. OLANIRAN: Now you say in your 18 ideas though. 19 JUDGE STRICKLER: It wasn't my idea, rebuttal testimony that zero viewing is higher 20 one of the witnesses conveyed it. for IPG titles than for MPAA titles. Do you 21 BY MR. OLANIRAN: 21 remember that? 22 But in your analysis though you can THE WITNESS: I recall, although I 34 36 tell generally when the viewing distribution would love to look at the most recent version and across a broadcast day, you had access to, you see if -were able to ascertain that type of viewing MR. OLANIRAN: I think it's your pattern on a broadcast date, correct? rebuttal testimony, Page 5. I'm sorry, Table 5. Page 27. Now I don't know if that table has Yes. Such that you would know that between changed or if it's even in the records now. 12:00 midnight and 6:00 a.m., that's generally Which exhibit is it? considered a low viewing period, if you will, THE WITNESS: I'm checking. There's compared to the rest of the broadcast day, is 9 10 that fair to say? 10 MR. BOYDSTON: Your Honor, may I The last part was the question? 11 approach with her rebuttal testimony? 12 12 JUDGE BARNETT: You may. 13 Then the answer is yes. 13 MR. OLANIRAN: I'm sorry, it's Page Okay. You're not making an issue with 14 14 regard to the local ratings data are you? JUDGE STRICKLER: There's a table on 15 15 16 MR. BOYDSTON: Objection. What does Page 27, a rebuttal to the MPAA? 16 17 he mean by, I mean, both viewing local rating --17 MR. OLANIRAN: Yes. local reviewing ratings have been talked about in JUDGE STRICKLER: I'm sorry, which 18 18 a bunch of different contexts. Maybe you could 19 table? 20 establish context. MR. OLANIRAN: It's supposed to be 20 21 MR. OLANIRAN: No, Your Honor, we have 21 table 5. I have my numbers -not talked about local ratings in different JUDGE BARNETT: It's 27.

37 39 making the statement that the zero values, the

JUDGE STRICKLER: What kind of figures? JUDGE BARNETT: Is it a figure or a table? MR. OLANIRAN: It's 37. JUDGE BARNETT: Oh. Page 37? MR. OLANIRAN: Oh. THE WITNESS: Well according to Table 9 5, in cable for example, IPG had 57.9 percent of its programs that had zero viewing for all broadcasts. Whereas the MPAA had 46.7 percent of 11 12 zero viewing for all broadcasts of that title. 13 And if you look at the just overall 14 quarter hours, IPG had zero viewing for 90.5 percent of the quarter hours. And MPAA had zero viewing for 74.7 percent of the quarter hours. 16 17 BY MR. OLANIRAN:

percentage of zero values are biased against IPG. And my question simply is did you do a test to see whether or not IPG actually had more titles in those periods, particular between 12:00 midnight and 6:00 a.m., where this low viewing in general, where you would expect to see fewer viewing, versus MPAA? I'm sorry, I thought that I answered 10 that. It's certainly all in here. I'm assuming

11 we don't want to take the time for me to find the 12 specifics, but I can tell you that overall IPG's 13 average show is shown at a time of day with fewer viewers. 14 And that's -- I don't mean viewing of the compensable titles, I mean using, you know,

18 Is your point that the zero viewing 19 issue affects IPG more than it affects MPAA? 20 My point is that there's a lot of zero

Nielsen national time of day viewership members. IPG's are shown, on average, at lower viewing 19 times. So I don't know if that answers your question or not. 20 21 It does in part. But I was actually

21 viewing. Including zero viewing for, you know,

22 referring to the actually Nielsen data on which

22 all broadcasts of titles. And that it is

disproportionately happening with IPG titles

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relative to MPAA titles.

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Okay. In making that point, the

latter point, did you check to see, for example,

what percentage of IPG's screen titles fell

6 within 12:00 midnight and 6:00 a.m. in the

morning? Versus MPAA.

Well I did look at the proportion of

9 titles at different times of day, as you

10 indicate. And we know from Table 1. I believe.

11 that IPG programs are shown at less, at times of 12

day where there are fewer viewers, on average.

0 Okav.

14 But how the, whether or not the zero 15 estimates are correlated with that. I don't know.

16 I mean, and the big issue of course is that some

17 of the zeros are true zeros and some of the zeros

18 may not be true zeros.

19 So even if you did that, you can't

20 parse out which are the true zeros and which

21 aren't the true zeros. That's the problem.

Well my question really is, you're

1 you rely on for essentially testifying that the

zero viewing is flawed.

You did not use that to determine the

portion of IPG's programs that fell within, say

between 12:00 and 6:00? If you didn't, that's

fine. I just need to know.

Yes, no, no, no. But I mean it's --

I did not look at the proportion of zero -- I

9 mean I did not focus on, you know, provide a

10 chart like this to show the allocation of zero

11 viewing across time of day. If that's the

12 question.

13 JUDGE STRICKLER: Excuse me. Another

14 question for you, Dr. Robinson.

15 A moment ago you made the distinction

16 between true zeros and zeros that are not true

zeros with regard to the Nielsen. The question 17

was asked in regard to another witness in the 18

case, I want to ask it to you as well. 19

One of your critiques of the Nielsen

21 data is that each sampling point, there's an

error surrounding it and you don't have these

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- standard errors and that's one of the problems.

  So at any given sampling point, say
- z so at any given sampling point, say
- 3 for argument sake there's a two associated with
- 4 the Nielsen sample, there's going to be an error
- 5 around that. Within a certain level confidence,
- 6 you're going to be below -- you might be below
- 7 two, you might be above two.
- 8 THE WITNESS: Right.
- 9 JUDGE STRICKLER: And one argument can
- 10 be, and has been made in this case by some
- 11 witnesses, that when you do enough sampling, that
- the zeros and the other numbers tend to smooth
- 13 out. The question that I have is this.
- 14 If you have, as in my hypothetical you
- 15 have a two, there's a confidence interval around
- 16 the two. That's the error associated with it.
- 17 But when you have a zero, you could
- 18 have an error associated with it. It could
- 19 either be more than zero, or zero, but it can't
- $20\,$   $\,$  be less than zero. Because nobody calls other
- 21 people up and says, stop watching that show.
- THE WITNESS: Yes.

- 1 regression is that it assumes that all the
  - 2 observations are independent. If you stick with
  - 3 that assumption then when you look at the, you
  - 4 talked in your hypothetical setup, you talked
  - 5 about the standard error. And the sort of the
  - 6 smoothing aspect.
    - And I think that there's -- I want to
  - describe why it doesn't smooth. I know, I
  - 9 assume there's been some testimony or there may
  - 10 have been some about why it might smooth, but it
  - 11 doesn't smooth. And let me try to explain why.
  - 12 If you think about the standard error,
    - 3 it reflects the distribution around the sample
    - .4 mean. The true mean as it were.
  - So when you, one way that we estimate
  - 16 standard errors is using the standard deviation.
  - 17 The standard deviation is simply a computation
  - 18 based on a list of numbers. Right?
  - Now in this case, when we have a lot
  - 20 of, when we have zero, this is a problem of, kind
  - 21 of this rare event problem. So just because you
  - get a zero and your standard deviation is zero,
- 42
- JUDGE STRICKLER: Or so we assume. So
- 2 how does that problem, with the existence of sort
- 3 of a closed range, if you will, one directional
- 4 range around zero, if at all, affect the
- 5 usefulness of the Nielsen data given the
- existence of the zeros? And do you have to
- perform any different regressions to account for
- 8 that.
- 9 THE WITNESS: Well the use of the
- 10 Poisson Regression essentially accounts for that,
- 11 for the bounded nature of the left-hand side of
- 12 the distribution.
- 13 The issue -- one of the issues about
- 14 the Poisson Regression is that it assumes that
- 15 all of the observations are independent. And I
- 16 know there's been discussion, it's not clear
- 17 whether the observations are dependent if a
- 18 viewer is watching a half hour show and they're
- 19 watching one 15 minute period, are they more
- 20 likely to be watching in the next 15 minute
- 21 period. A probably yes.
- 22 So one problem with a Poisson

- 1 doesn't mean that the true standard error is
  - 2 zero. Right?
  - 3 It just means you have a bad estimate,
  - 4 that you can't use the standard deviation to
  - 5 estimate the standard error.
  - 6 And in fact, there is, you know,
  - 7 literature about this and how you might solve
  - 8 this problem. And there's something called the
  - 9 Rule of Three that Cochran suggests, et cetera,
  - 10 but at any point, big picture, the standard error
  - 11 is not well estimated using the standard
  - 12 deviation in that case.
  - But conceptually we know there's a
  - 14 standard error. When we have these different --
  - 15 these are different -- the N is not increasing.
  - In order to have this idea that it's
  - 18 that N is increasing.
  - 19 I agree that if we have a sample, the
    - 0 bigger, the more, the higher N, the more draws we

going to smooth out, it has to be that you think

- get from the box, the lower the standard of
- 22 error. But, that's not what's going on here.

	45	47
1	We're not picking more draws, we're adding	be using the real values and not the predicted
2	together two or three or four, whatever,	2 values.
3	independent, we're assuming independent because	3 Q And when you say the data, what are
4	the way Dr. Gray did his Poisson Regression,	4 you referring to?
5	adding these independent variables together. And	5 A Well I mean, if you think that the
6	they're each associated with a standard error.	6 data are reliable then you should be using the
7	And with standard error of the sum, is	7 data and not using your estimates of the data.
8	going to equal the square root of the squares of	8 Q And by the data, which data, again,
9	the standard errors of the individual component.	9 are you referring to?
10	Those have a fixed end related to	10 A The 2000 to 2003 Nielsen distant
11	whatever it was for that particular sample. For	11 viewing data.
12	that particular random variable.	12 Q I was trying to make sure I understood
13	So there's no N in that formula for	13 what you meant by the data. And your argument is
14	the sum that's increasing. And if it's	14 that for the periods for which he had the data,
15	independent there's no covariant elements in the	15 he should have used the actual data. And then
16	formula. It's just the positive numbers. And so	16 for the remainder of, I'm not sure
17	therefore it's increasing. Did that help?	17 A Right. So he uses 2000 to 2003 in
18	JUDGE STRICKLER: Yes.	18 order to predict 2004 to 2009.
19	MR. CLANIRAN: Now could you repeat	19 Q Right.
20	that?	20 A Then he needs to use measures of
21	(Laughter)	21 distant viewing in order to do his computations.
22	THE WITNESS: For just a moment I	22 Q Correct.
<b></b>		
Ц		48
	46	
1	thought you were serious.	1 A So he replaces the actual data for
2	thought you were serious.  BY MR. OLANIRAN:	1 A So he replaces the actual data for 2 2000 to 2003 with basically his estimates of
	thought you were serious.	1 A So he replaces the actual data for
2 3 4	thought you were serious.  BY MR. OLANIRAN:	1 A So he replaces the actual data for 2 2000 to 2003 with basically his estimates of
2	thought you were serious.  BY MR. OLANIRAN:  Q You identified some titles in your	1 A So he replaces the actual data for 2 2000 to 2003 with basically his estimates of 3 those using his predicted model. It makes sense
2 3 4	thought you were serious.  BY MR. OLANIRAN:  Q You identified some titles in your rebuttal testimony that you said had no viewing	1 A So he replaces the actual data for 2 2000 to 2003 with basically his estimates of 3 those using his predicted model. It makes sense 4 to use the predicted model to predict 2004 to
2 3 4 5	thought you were serious.  BY MR. OLANIRAN:  Q You identified some titles in your rebuttal testimony that you said had no viewing at all across all stations in the Nielsen data,	1 A So he replaces the actual data for 2 2000 to 2003 with basically his estimates of 3 those using his predicted model. It makes sense 4 to use the predicted model to predict 2004 to 5 2009 because you don't have data for that. But
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2 3 4 5 6 7 8 9	thought you were serious.  BY MR. OLANIRAN:  Q You identified some titles in your rebuttal testimony that you said had no viewing at all across all stations in the Nielsen data, correct?  A Yes.  Q Remember those? All right. Do you	A So he replaces the actual data for 2 2000 to 2003 with basically his estimates of 3 those using his predicted model. It makes sense 4 to use the predicted model to predict 2004 to 5 2009 because you don't have data for that. But 6 you have data for 2000 to 2003. 7 Q I understand now. So you're saying 8 for '04 through '09, he should have used the 9 predicted model. For '00 to '03 he should have 10 used the actual data.
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	49		51
1	actually a reasonable way to calculate the	1	that excerpt already contains my cross-
2	relative market value, did you not?	2	examination of Dr. Robinson related to her use of
3	A In the same context that I described	3	the value in here and the statistics, so I won't
4	earlier where you want to use the data that you	4	need to go through that material with her.
5	have available and come at it from as many	5	JUDGE BARNETT: Oh, too bad.
6	directions as you can and look for a convergence	6	BY MR. MACLEAN:
7	and understanding, I think what he did with the	7	Q Dr. Robinson, could you please turn to
8	modifications that I think are, that I made, is	8	SDC Exhibit 640, which is Dr. Erdem's rebuttal
9	reasonable to put in the mix.	9	testimony at page 28?
10	MR. OLANIRAN: Thank you. I have no	10	MR. BOYDSTON: Which page?
11	further questions, Your Honor.	11	MR. MACLEAN: Page 28.
12	MR. MACLEAN: Your Honor, if I could	12	BY MR. MACLEAN:
13	just have five minutes to get set up? And	13	Q Now, Dr. Robinson, at the bottom of
14	perhaps we could shorten our morning break so we	14	page 28, it's table 10, and it leads over onto
15	can get as much done as we possibly can before	15	page 29. These, with one small correction that
16	the next witness.	16	Dr. Erdem made for satellite 2004, are Dr.
17	JUDGE BARNETT: Or we can call this	17	Erdem's proposed allocations. That's your
18	our morning break and tough it out until noon.	18	understanding, correct?
19	MR. MACLEAN: That's what I was	19	A Yes.
20	suggesting.	20	Q And then if you turn to page 29, in
21	JUDGE BARNETT: okay. So we'll recess	21	the second satellite 2008, Dr. Erdem has an
22	for 15 minutes.	22	allocation for IPG of zero percent; is that
	50		52
1	50 (Whereupon, the above-entitled matter	1	52 right?
1 2		1 2	
1	(Whereupon, the above-entitled matter		right?
2	(Whereupon, the above-entitled matter went off the record at 10:05 a.m. and resumed at	2	right? A Yes.
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55 53 1 because of your ruling to exclude them, which section for 2008, you have zero percent, zero

- percent, zero percent, zero percent, zero percent
- all the way across the row, don't you?
- Is that because you didn't have all of
- IPG's titles in your data?
- No, I think it is because of the
- revision must have removed the title that was
- there. So it was true with respect to the
- earlier version of these numbers I did have the
- title; and, therefore, I was getting a number. 11
- 12 And Dr. Erdem didn't have the values for that
- 13 title, so he wasn't getting a number in that
- 14 instance. In the revision, we now both don't
- 15 have the title.
- 16 Well, Dr. Erdem excluded ongoing
- 17 program from the get-go, didn't he? You don't
- 18 know what title you're talking about.

appears to have no titles for --

- I don't recall right now what the
- title is, no. 20

that right?

А

in satellite 2000?

Α

data, right?

Α

0

value, right?

my data.

- 21 At any rate, whatever titles IPG has
- in satellite 2008 don't appear in your data; is

In the updated version, IPG has,

for the year, in the devotional 2000 satellite,

year 2000. Zeros all the way across. Do you see

what titles IPG claims in the devotional category

they were in your Tribune set, they'd have a

to object. This is just very disingenuous

because the reason that they aren't there is

Now take a look at your allocations

So whatever IPG titles -- do you know

I can look it up if you'd like me to.

Whatever they are, they're not in your

I don't know what you mean by not in

They're not in your Tribune set. If

MR. BOYDSTON: Your Honor, I'm going

- 2 fair enough. But he knows that, and he's making
- 3 a suggestion that's completely at odds to the
- fact that they're not there because you --
- JUDGE BARNETT: Mr. Boydston, what's
- the legal basis of your objection? 6
- MR. BOYDSTON: I apologize. I didn't
- think that through, which, of course, I should 8
- have. I apologize. I withdraw, and I quess --
- 10 JUDGE BARNETT: Thank you.
- MR. BOYDSTON: -- and that's what 11
- 12 piqued my interest.
- 1.3 MR. MACLEAN: And, your Honor, I would
- ask that we not have continued objections during
- this examination.
- JUDGE BARNETT: Well, that's what I'm
- 17 trying for.
- BY MR. MACLEAN: 18
- 19 In your Tribune set, whatever IPG's
- titles are claimed for the year 2000, they don't
- 21 appear; is that right?
  - There's no hours reported here in 2000

54

- for IPG with the current set of claimed titles.
  - So it's either not in the data set or there isn't
  - a claimed title.
    - 0 Now, if you can turn back to Dr.
  - Erdem's proposed allocations on page 28 of his
  - rebuttal testimony and take a look at the year
  - 2000.

12

- Okay.
- 9 Dr. Erdem proposes a positive
- 10 allocation for IPG in the year 2000 based on his
- 11 data set, right?
  - A
- 13 Q So at least with respect to the year
- 2000, Dr. Erdem's data set is actually more 14
- complete with respect to IPG's titles than your 15
- data set. 16
- 17 If you're saving that these numbers
- are positive and, therefore, he's including some 18
- broadcasts in his analysis and my number does not 19
- have any broadcasts, then I agree with you.
- 21 While we're on the subject of data
- sets, where did you get your cable CDC data?

11

12

13

14

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18

19

n		1	volume s
	57		59
1	A From counsel.	1	satellite statements of account came from IPG.
2	Q Counsel for whom?	2	BY MR. MACLEAN:
3	A IPG.	3	Q And who at IPG prepared that, those
4	Q Do you know where counsel for IPG got	4	data?
5	it? Do you know?	5	A I'm not sure.
6	A From CDC.	6	Q You did not, certainly did not prepare
7	Q Counsel got it directly from CDC?	7	the data for subscriber count for satellite, did
8	A I don't know.	8	you?
9	Q Where did you get your subscriber and,	9	A Correct. By prepare, you mean take
10	subscriber count and fees paid data with respect	10	off the satellite statement of account and look
11	to your satellite analysis?	11	at
12	A Well, all the data that I got I got	12	Q Did you look at the satellite
13	from counsel.	13	statements of accounts?
14	Q For IPG?	14	A I looked at some examples.
15	A IPG.	15	Q Who chose the examples for you to look
16	Q Were you aware that you had CDC data	16	at?
17	for satellite and a non-CDC data set for cable?	17	A I just wanted to know what it looked
18	I'm sorry, strike that. Did you know that you	18	like. I don't even, I don't recall.
19	had a CDC data set for cable and a non-CDC data	19	Q You are, of course, aware of Mr.
20	set for satellite?	20	Galaz's criminal record with respect to fraud
21	A Yes, that sounds right.	21	involving cable royalty proceedings?
22	Q Did you inquire who prepared the non-	22	A I'm really not aware of anything about
	58		60
1	CDC data set that you had for satellite?	1	that.
2	A If I go back and look at my report,	2	Q So not being aware of it, you didn't
3	I'm sure I identified where the data sets	3	question or examine whether it was, you, as an
4	Q Go ahead.	4	expert, would want to rely on a data set prepared
5	A In any case, it came from counsel, so	5	by Mr. Galaz?
6	I don't know if that answers your question or	6	A I had the satellite statements of
7	not.	7	account. I looked at a few. I had the data set
8	Q No, my question was whether you know	8	given to me by counsel, which I understood to
9	who prepared it.	9	come from IPG, and I used it.
10	A I'm a little bit confused about the	10	Q You didn't have any involvement in the
11	numbering of the exhibits. Can somebody tell me	11	decision whether to use a data set prepared by
12	where I can find my	12	IPG or a data set prepared by CDC?
1.3	MR. MACLEAN: I think she's looking	13	A No, I was no. But I had all the
14	for her, one of her direct testimonies.	14	satellite statements of accounts, but I didn't
15	MR. BOYDSTON: May I just go ahead and	15	create the data myself from them.
16	page the beginning of it?	16	Q Where did you get the distant viewing
17	JUDGE BARNETT: You may.	17	data that you used in the formulation of your
18	DR. ROBINSON: I think I might have	18	time of day criterion, your time of day factor?
19	what I need in a rebuttal, the report I'm looking	19	A All my data came from counsel. I
20	at.	20	mean, do you want me to page through here and see
21	MR. MACLEAN: Okay.	21	what I
1			

			volume
	61		63
1	counsel?	1	one.
2	A Yes.	2	Q Where did you get that data?
3	Q Did you have any role in selecting	3	A I think I just said I got it from
4	what viewing data you would use in calculating	4	counsel.
5	your time of day factor?	5	Q What's your understanding of the
6	A What I wanted for that factor was	6	origin of that data?
7	simply an average viewership estimate for each of	7	A That it comes from Nielsen.
8	the 96 15-minute increments in the day, and	8	Q That counsel got it from Nielsen?
9	that's what I got so	9	A I don't know the path by which counsel
10	Q You simply got the averages. You	10	got the data.
11	didn't get the underlying data that went into	11	Q So I know we covered this before, but,
12	those averages?	12	just to get us back onto the right track, your
13	A No, I think I did sum it up.	13	basic methodology involves a calculation based on
14	Q So you're the one who prepared the	14	broadcast hours, which you use as a volume
15	averages based on data you received from IPG's	15	measure, times one of three factors, each of
16	counsel?	16	which you use as a separate value measure; is
17	A Such a long time ago, you know. I	17	that right?
18	think that's correct, though.	18	A As shown in that summary table, I
19	Q I'm sorry. Which is correct? That	19	believe it's table eight, each of those three
20	you summed it up or IPG summed it up?	20	factors are identified and they can be used
21	A Oh, I think I summed it up.	21	independently or together.
22	Q From data that IPG provided you?	22	Q Well, why don't we take a look at, as
	62		64
1	A Yes.	1	an example, IPG Exhibit 260?
2	Q And what was that data?	2	A Okay.
3	A I can't find in front of me right now	3	Q And let's first take a look at your
4	any detail on it, but my understanding is that it	4	IPG share of hours column, column K.
5	was Nielsen data on viewership in those quarter	5	A Okay.
6	hours.	6	Q And this is simply a measure based on
7	Q Wasn't it the varied HHVH distant	7	broadcast hours, number of broadcast hours,
8	viewing data that you're criticizing MPAA for	8	right?
9	relying on?	9	A Correct.
10	A Probably. Well, I don't know what you	10	Q Broadcast hours that's broadcast into
11	mean because that's I think maybe you're	11	the air irrespective, this column here standing
12	talking about two different things because I did	12	alone, irrespective of the number of distant
13	sum up the 2000 to 2003 data and used that, but I	13	subscribers to which it goes?
14	also had other Nielsen data with the 96 quarter-	14	A Correct.
15	hours that was based over, my recollection is, a	15	Q And this is, in this case, you have
16	longer period.	16	described it as your volume factor, correct?
17	Q So which did you use for your time of	17	A Yes.
18	day factor?	18	Q Now, in this case, the case that we're
19	A As you can see in the report, I used	19	here for today, you multiplied the broadcast
20	the I computed both, and I think I have a	20	hours by your scaling factors, your value
21	table in the report that compares them. And then	21	factors, to arrive at your proposed allocation,
21 22	table in the report that compares them. And then  I used the, not the 2000 to 2003 data, the other	21	factors, to arrive at your proposed allocation, correct?

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Just exactly the way Dr. Erdem did,
yes.
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- 3 Now, in the 1999 case, you also used
- broadcast hours as a measure, right?
- Α

2

- 0 But you didn't multiply it by your
- other factors; is that right?
- Which highlights that this is a
- completely different analysis. Because of the
- 10 nature of that analysis, the numbers were not, it
- is not mathematically appropriate to multiply
- 12 them. But in this case, it is.
- 13 Well, in that case, it wasn't because
- you didn't design it that way, correct?
- 15 It was not designed the same way
- 16 correctly.
- 17 Q Why the difference between how you
- 18 designed the analysis in the 1999 case and how
- 19 you designed the analysis in this case?
- 20 There were various constraints in the
- 21 prior case that did not allow me to prepare it
- the way it is prepared here.

- 2004, looking at column B for devotional, when
- you say 85.45 percent, that would suggest that,
- according to this factor, one hour of IPG
- programming is, on average, worth 85.45 percent
- of one hour of SDC programming?
- That's exactly how you interpret it.
- And if you look over, if you see in column A, you
- see the 22.86 percent, the number of hours. And
- then you look over at the range in column E from
- 10 14 percent to 20 percent. So you can see that,
- in the range of the value, it's always lower. So
- we look at the hours, so IPG has 23 percent of
- 13 the hours. But by these metrics, the average
  - hour is worth less. And so in the whole range,
- you're always getting something a little bit less
- or a lot less.
  - And in that particular example where
- 18 14.18 percent is the bottom of the range in 2004
- 19 in devotional, presumably that's because it is
- 20 the product of 22.86 percent times 55.77 percent,
- 21 correct?

17

22 That being the lowest one, yes.

66

- Like what?
- I really cannot remember the details,
- but I had wanted to be able to do it the way it's
- done here but I didn't have the capacity for
- whatever the data structure or other constraints
- were that I don't recall right now.
- JUDGE STRICKLER: I have a question
- 8 for you with regard to Exhibit 260, prime or
- 9 whatever we're calling it, in column D, time of
- day, you express it as a percentage. How do you 10
- 11 express time of day as a percentage?
- DR. ROBINSON: In this instance, if 12
- 13 you look at the, if you look at the panel at the
- very top of the page and you look in the middle
- part of that panel, do you see how it says value
- of an IPG hour relative to a non-IPG hour?
- 18 DR. ROBINSON: So a non-IPG hour here

JUDGE STRICKLER: Right.

- 19 would be 100 percent, so it's kind of more like a
- 20 ratio.

14

- 21 BY MR. MACLEAN:
- 22 So to take an example, in the year

- And, likewise, the product on the
  - other side, 20.20 percent, would presumably be
  - the product of 22.86 percent times 85.45 percent?
    - Which is the high number, yes.
  - JUDGE STRICKLER: I may be missing
  - something then. So you say the 100 percent
  - equals the value of the non-IPG hour or otherwise
  - known as the SDC hour.
    - DR. ROBINSON: Right.
  - 10 JUDGE STRICKLER: Okay. So how do you
  - 11 determine, in 2004 for example, what calculation
  - 12 do you do to say that for time of day it's 85.45
  - 13 percent as the ratio?
  - DR. ROBINSON: You mean how do I --14
  - 15 JUDGE STRICKLER: How do you compute
  - the 85.45? Take me through the steps by way of 16
  - 17 example.
  - 18 DR. ROBINSON: So I take, I look at
  - 19 all the data. Let's take a particular broadcast
  - or a particular title. So say there's one title
  - 21 for each of them. You look at the time of day of
  - the broadcast.

71 69 JUDGE STRICKLER: Let's pick a time for argument's sake. Let's say noon to 1:00 in DR. ROBINSON: It's in 905, if that the -helps. MR. BOYDSTON: No, those are internal DR. ROBINSON: No, no, no, but it's numbers of mines. This is Dr. Robinson's amended all the times. It's the whole day. So it's -here, let me -- do I have the direct --JUDGE STRICKLER: The supplemental --MR. BOYDSTON: May I approach, your 7 MR. BOYDSTON: No, the supplemental Honor, to help her -thing was my mistake. There's no such thing as JUDGE STRICKLER: I think she just found it. the supplemental. The supplemental is within her DR. ROBINSON: No, I didn't. Sorry. amended direct statement. I don't think I have the direct --12 JUDGE STRICKLER: I understand. 13 MR. BOYDSTON: Yes, it's right here. 13 MR. BOYDSTON: It's not a separate This is your direct. 14 animal, and I made that mistake and I'm going to 15 DR. ROBINSON: Thank you. Oh, I don't clear it up later on when we get the exhibits straightened out. I apologize for that. It's in want the -- I want the actual report. This is 16 17 the table. 17 her amended --JUDGE BARNETT: I'm looking at Exhibit 18 MR. BOYDSTON: Oh, I'm sorry. I 18 19 believe this is it. It says on the top that --19 IPG-5A amended. did I give you the right one? JUDGE FEDER: Hours of IPG claimed 20 20 21 DR. ROBINSON: Yes, you did. I'm 21 titles in 2004 to 2009, example by distant 22 trying to figure out the fastest way to show 22 subscribers? 70 72 DR. ROBINSON: I think it would be in this. I'm almost there. JUDGE STRICKLER: You're looking at Table 5A maybe. your direct testimony? JUDGE FEDER: Exhibit IPG-5A amended. DR. ROBINSON: Yes. DR. ROBINSON: Well, let me see if I 5 JUDGE STRICKLER: Is this your can just describe it in words. supplemental direct or your -- just tell me the 6 JUDGE STRICKLER: You're on Table 5A, page. I'll figure it out. is that what you're saying? DR. ROBINSON: No, let me just see if DR. ROBINSON: 5A, what I call Exhibit 9 5A in my --9 I can describe it in words. So we have every 10 JUDGE STRICKLER: Do you know which 10 quarter hour and every quarter hour is, there's a 11 one she's looking at? Can you help me out. 11 percentage of viewership that adds up to 100 percent in the day. It's based on Nielsen 12 MR. BOYDSTON: Exhibit 5A or Table 5A. 12 13 DR. ROBINSON: No. Exhibit 5A. 13 national average. 14 So then if you look at how many 14 MR. BOYDSTON: I'm sorry. 15 JUDGE STRICKLER: Page number? broadcasts IPG had in a day in that quarter hour 15 DR. ROBINSON: It's broadcasts by 16 16 17 JUDGE STRICKLER: That's where you're 17 quarter hour 1999 to 2009. 18 JUDGE STRICKLER: Page number, please? 18 losing me. That IPG had in that day? DR. ROBINSON: Your Honor, it says 19 DR. ROBINSON: Yes, all 96. 19 "Exhibit IPG-5A amended," if that helps. There's JUDGE STRICKLER: All 96 quarter 21 no page number. 21 hours. 22 MR. BOYDSTON: This is in the amended 22 DR. ROBINSON: Yes. So you look at

75 JUDGE STRICKLER: Including zeros? how many did IPG have in each quarter hour, how DR. ROBINSON: Indeed. But it's not many did SDC have in each quarter hour, and then -- well. I don't know what their process is. you do a weighted average based on the Nielsen BY MR. MACLEAN: viewership. Does that make sense? JUDGE STRICKLER: That I understand. Dr. Robinson, while we're on this DR. ROBINSON: Okay. subject, are you sure you used something, in JUDGE BARNETT: And then the 85.45 calculating those numbers, are you sure you used something other than MPAA's distant HHVH data for percent is the factor that you applied to the 22.86 percent volume number? calculating your average numbers of viewers per 10 DR. ROBINSON: Yes, and it reflects 10 day part? 1,1 11 That's my recollection. But if I look those weighted average computations. in the report, I will be able to clarify. I'm 12 MR. BOYDSTON: Just by way of 12 assistance, if you look at Exhibit 259, I believe 13 13 looking at which report and where it would be. Okay. So on page 15, footnote 10 --14 that's where this is represented most simply. 14 It's Table 7B. But if you look at Exhibit 259, 15 15 0 Of what? Of the same thing we were just looking 16 the bottom table has the computation that results 16 17 in that number. I think that's what that is. I 17 could be wrong, but I'm pretty sure. And what was that? JUDGE BARNETT: Thank you. MR. BOYDSTON: The amended direct 20 BY MR. MACLEAN: statement. 21 BY MR. MACLEAN: Dr. Robinson, to express it 21 22 In cable or satellite? mathematically, it would be, essentially, the sum 74 76 product of all IPG hours and total viewers for This happens to be satellite. May I each hour divided by the sum of IPG hours to get continue? the average number of IPG hours total viewers for JUDGE BARNETT: Page number again? each hour in which IPG's broadcasts were made, DR. ROBINSON: Fifteen. correct? JUDGE BARNETT: Thank you. I didn't really follow that, but it's BY MR. MACLEAN: the weighted average of IPG broadcasts weighted Okay. Go ahead. by the proportion of Nielsen viewers in that So the footnote reads, "The Nielsen quarter hour relative to SDC's. national viewing data was produced as part of JUDGE FEDER: I'm sorry. That quarter MPAA's backup materials in the current proceeding and is referred to by Dr. Gray in his direct hour, is there any, does that take into account whether that quarter hour is on a Friday or a testimony in the current proceeding." So the 13 Sunday or in May or in December? Nielsen -- so I received it from counsel, but 13 DR. ROBINSON: The quarter hour is an 14 counsel got it, I guess, in the production from 15 average across an entire year. 15 MPAA. 16 JUDGE FEDER: Across the entire year, 16 Okay. Well, so that could be either 17 365 days? 17 MPAA's distant HHVH data for 2000 through 2003 or 18 DR. ROBINSON: Yes. 18 it could be MPAA's local meter data for 2000 JUDGE FEDER: Okay, thank you. through 2009, right? One or the other? 19 19 JUDGE STRICKLER: And that's based on 20 Well, I refer to page 18 of his 20 21 viewership data from Nielsen? 21 testimony, if we want to go look there. 22 DR. ROBINSON: Yes. 22 So we can find the answer there.

80

77 whatever it is? You don't know it sitting here subscribers as a half-hour program? 2 What do you mean by attract today? subscribers? Are we talking about their decision Well, again, I recall a comparison in

my own report, which I can look for if you'd whether or not to sign up for the CSO?

Well, ultimately, when we're looking like. 0

Okav. Let's go back to broadcast at the value of programming to a CSO, it's the 0 hours for a second because this, of course, is number of subscribers it attracts, right?

the factor that's being scaled, right? I agree with that, ves.

Any reason to think that a one-hour 0 Correct.

10 0 Which means that, naturally, more 10 program attracts twice as many subscribers as a

broadcast hours in your analysis will equate to 11 half-hour program?

more value?

JUDGE STRICKLER: Attracts as many 13 subscribers to subscribe?

As in Dr. Erdem's and as in Dr.

Gray's. All three of us do the same thing. MR. MACLEAN: Of course. Right.

16 Yes, he does. 16 JUDGE STRICKLER: Thanks a lot.

17 Where does Dr. Erdem use hours? 17 DR. ROBINSON: If you're asking me if

15

As a practical matter, he computes 18 the, you know, what the characteristics are of a

19 average -- well, he computes viewership. And if 19 program that might influence a subscriber's

decision to subscribe, do I think that the length you apply the average viewership that he computes 20

21 to the number of hours, then you would have the 21 of program might be one of the characteristics

same process that you have here. 22 that you would consider? I would say yes.

78

And where does Dr. Erdem compute or 1

apply the average viewership to any number of

Well, it's mathematically equivalent

Does Dr. Erdem use hours?

to have a total. He does it as a total. You

take the total and then you divide it by the

number of hours, and then you have the average.

So it's mathematically identical.

9 0 Where does he compute a total of

10 hours?

12

15

18

20

22

11 He computes the total viewership.

Actually, Dr. Erdem just multiplies

ratings times subscribership, right? 1.3

Well, okay. But he calls it 14

15 viewership. Those are his estimates of

viewership. 16

17 0 But he doesn't incorporate number of

18 hours, does he? Either of those factors? I

won't ask you to speak for Dr. Erdem. Let's just

focus on yours here.

21 Do you have any reason to believe that

a one-hour program will attract twice as many

BY MR. MACLEAN:

To the degree of a one-hour

programming attracting twice as many as a half-

hour programming?

I would not, I have no, I have no

reason to believe that.

Thank you, your Honor.

But that's the way your factor would 7

8 be applied.

9

MR. BOYDSTON: Objection. That

10 misstates her testimony and misstates her

11 methodology.

12 DR. ROBINSON: I have absolutely no

13 idea what you mean.

JUDGE BARNETT: Sustained. 14

BY MR. MACLEAN. 15

16 A program with an equal number of

17 broadcasts in her methodology, or two programs

18 with an equal number of broadcasts, one being an

19 hour long and one being a half an hour long, the

hour-long program would carry twice as much value 21 as the half-hour program in your broadcast hours

83 81 MR. BOYDSTON: Same objection. will attract, on average, five times as many subscribers to subscribe to that CSO as a weekly JUDGE BARNETT: Is that a question. program of the same length? Mr. MacLean? BY MP MACLEAN. MR. BOYDSTON: Objection, incomplete Doesn't it? hypothetical. If you're asking for clarity on the JUDGE BARNETT: Overruled. volume measure, what I can tell you is that the DR. ROBINSON: None of the analyses in volume reflects minutes of broadcasts and not this case conducted by Dr. Erdem, Dr. Gray, or broadcasts. myself are a clear model of subscribership. So Okay. I think everybody understood we can talk about what that model of that. Could you answer my question as to whether subscribership might look like if we get it -twice as many minutes would equate to twice as BY MR. MACLEAN: 12 13 much value in your methodology? 13 I'm only asking about your analysis, 14 Every additional minute of 14 and the answer is yes or no. 15 broadcasting in this methodology, since that's 15 I think the characteristics of the 16 the volume, generates additional value, yes. 16 show matter for subscribers' decisions about 17 Do you have any reason to believe that 17 whether or not to subscribe, and one of the 18 a daily weekday program would attract five times 18 characteristics being how frequently the show is as many subscribers to the CSO, to subscribe to shown. I'm sure it's, quite plausibly, a factor. 19 19 20 the CSO, as a regular once-a-week program? 20 0 A factor --21 Well, hold on --And no opinion as to the value of that 21 22 MR. BOYDSTON: Your Honor, I'm going 22 factor. 82 84 to object. I think this goes beyond the scope of I'm sorry? her expertise, frankly. She is not testifying as I don't have an opinion as to the an expert on television shows and their order of magnitude of that factor. characteristics. But your answer in that regard doesn't 5 JUDGE BARNETT: Legal basis? come out of your expertise. That's just your MR. BOYDSTON: I think it's beyond the understanding of what may or may not attract scope of her expertise. 7 people to watch shows. JUDGE BARNETT: Okay. Mr. MacLean? Well. I don't know. As an economist. 8 MR. MACLEAN: Your Honor, in that 9 you want to look at economic factors. I have 10 case. I'd move to strike Dr. Robinson's proposed expertise in looking at how things are valued and 10 11 allocation. economic ages and how they value things and how 11 12 MR. BOYDSTON: Your Honor, no. because 12 you value things. So is this something I would 13 the allocation is based upon the statistical consider if I were. if I had subscriber-level 13 analysis she's talking about. 14 information and I was considering a model, would 14 15 JUDGE BARNETT: Overruled. You're 15 I consider that? Yes. 16 inquiring about her analysis, and she can answer 16 Well, and would you consider it in the 17 the question if she can answer the question. Can 17 sense of valuing a daily program, a five-day-a-18 you restate the question? 18 week program, on average, more than a one-day-a-19 MR. MACLEAN: Yes, your Honor. 19 week program? 20 BY MR. MACLEAN: 20 So your question is do I think that a 21 Do you have any reason to believe that 21 five-day-a-week program has more value than a a daily weekday program aired five times a week 22 one-day-a-week program?

	85		87
1	Q Yes.	1	half a paragraph on the top of the page?
2	A I mean, there's a lot of other	2	MR. MACLEAN: You know what? I
3	factors, and it depends on the other	3	apologize. I think this was my fault. I meant
4	characteristics. But, you know, on the face of	4	to say paragraph 20, but it starts on page 16.
5	it, it would seem plausible that that's what the	5	Sorry.
6	data would show.	6	DR. ROBINSON: Okay.
7	Q Okay. So you take that volume factor	7	BY MR. MACLEAN:
8	and you multiply it by your, well, I'll call them	8	Q Okay. And really this paragraph is a
9	scaling factors, your value factors.	9	brief description of kind of the thinking behind
10	A Okay.	10	your valuation factors. Let me just read this
11	Q So if you could turn to your amended	11	and see if this purpose is right. I'm looking at
12	written direct testimony, and I believe it's	12	the second sentence in paragraph 20, "As
13	well, let's do cable and then the written direct	13	discussed in my opening report, ceteris paribus -
il		14	
14	testimony of cable, although I believe your	1	-" first of all, ceteris paribus, that's Latin,
15	satellite testimony has something similar at any	15	right?
16	rate.	16	A Yes.
17	MR. BOYDSTON: Your Honor, may I	17	Q What does that mean?
18	approach?	18	A Everything else equal.
19	JUDGE BARNETT: You may.	19	Q "Ceteris paribus, larger number of
20	MR. MACLEAN: Page 20.	20	distant subscribers to the stations re-
21	JUDGE STRICKLER: Page 20 of which	21	transmitting the broadcast may indicate more
22	document?	22	valuable broadcasts," right?
	0.6		88
	86	1	00
		١ .	
1	MR. MACLEAN: This is page 20 of her	1	A Right.
2	and I'm talking about the supplemental	2	Q "Similarly, ceteris paribus, rater
2	and I'm talking about the supplemental portion, your supplemental testimony that is a	2	Q "Similarly, ceteris paribus, rater fees paid by the CSOs re-transmitting the
2 3 4	and I'm talking about the supplemental portion, your supplemental testimony that is a part of your amended written direct testimony,	3 4	Q "Similarly, ceteris paribus, rater fees paid by the CSOs re-transmitting the stations showing the broadcasts may indicate more
2 3 4 5	and I'm talking about the supplemental portion, your supplemental testimony that is a part of your amended written direct testimony, cable, page 20.	2 3 4 5	Q "Similarly, ceteris paribus, rater fees paid by the CSOs re-transmitting the stations showing the broadcasts may indicate more valuable broadcasts," right?
2 3 4 5	and I'm talking about the supplemental portion, your supplemental testimony that is a part of your amended written direct testimony, cable, page 20.  DR. ROBINSON: So that page of text?	2 3 4 5	Q "Similarly, ceteris paribus, rater fees paid by the CSOs re-transmitting the stations showing the broadcasts may indicate more valuable broadcasts," right?  A Yes.
2 3 4 5 6	and I'm talking about the supplemental portion, your supplemental testimony that is a part of your amended written direct testimony, cable, page 20.  DR. ROBINSON: So that page of text?  MR. MACLEAN: Yes.	2 3 4 5 6	Q "Similarly, ceteris paribus, rater  fees paid by the CSOs re-transmitting the  stations showing the broadcasts may indicate more  valuable broadcasts," right?  A Yes.  Q "Further, ceteris paribus, more
2 3 4 5 6 7 8	and I'm talking about the supplemental portion, your supplemental testimony that is a part of your amended written direct testimony, cable, page 20.  DR. ROBINSON: So that page of text?  MR. MACLEAN: Yes.  DR. ROBINSON: Okay, I think I'm	2 3 4 5 6 7 8	Q "Similarly, ceteris paribus, rater  fees paid by the CSOs re-transmitting the  stations showing the broadcasts may indicate more  valuable broadcasts," right?  A Yes.  Q "Further, ceteris paribus, more  viewers watching programming during the time of
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interaction with other things for the moment.
                                                                 analysis. There was, I had different constraints
                                                                 with respect to the data and my ability to work
    I'm simply saying, looking at this, holding
                                                              3 with them, and this is the most appropriate thing
     everything else equal, that's how we would
                                                                  to do with this data in this proceeding.
     consider the direction that's --
                                                                              Is it because, in 1999, the SDC had
                 Taking, for example, your number of
                                                                  the only program that was claimed on WGN in that
     distant subscribers, okay? You're assuming that
                                                                  proceedings, whereas, in this proceeding, IPG had
    all programs on a given station, for a given
                                                                  claims for, had claims for Creflo Dollar on WGN?
    station will have the same number of distant
                                                                              Definitely not.
     subscribers for all programs, right?
                 I'm sorry, I lost you. Say it again.
10
                                                                              Now, your next factor is a fees paid
                                                             10
                                                                 factor or another factor is a fees paid factor,
11
                 A given station will have the same
                                                             11
                                                                  right?
     number of distant subscribers for every program
                                                             12
12
13
                                                             13
     on that station, correct?
                                                                        Α
                                                                              Yes.
                 Yes.
                                                                              Actually, very closely related to the
14
                                                             14
                                                                        0
                                                                 distant subscribers factor?
15
                 So your distant subscribers metric.
                                                             15
16
     your distant subscribers factor, assumes that
                                                             16
                                                                              Yes.
     every program on that station is of equal value.
                                                             17
                                                                              Now, cable systems pay fees using
                 Well, I think that's very clear from
                                                                  formulas based upon the number of distant
     the nature of the computations that are done and
                                                                  subscribers, the number of stations transmitted,
19
20
     described, yes.
                                                             20
                                                                  factors such as that, correct?
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Now you've lost me.
 1
                 Well, do you have any basis for any
    assumption that each and every program on a given
    station contributes equally to subscribership?
                 MR. BOYDSTON: Objection, your Honor.
    This misstates the methodology, using --
                 MR. BOYDSTON: Sustained.
                 BY MR. MACLEAN:
                 Now, in the 1999 proceeding, you used
 9
10
    a somewhat different measure of average distant
11
     subscribers for cable systems, didn't you?
12
                 Yes.
13
                 In 1999, you actually used average
14
    distant subscribers per cable system; is that
     right?
15
16
                 Yes.
17
                 Now, here you use total distant
18
    subscribers over all stations, right?
19
20
                 Why did you change that factor of your
21
    methodology from 1999 to this proceeding?
```

Like I said, this is a different

Sure. That's what ceteris paribus

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other hand, rather than aggregating fees paid, as
     you've done in this proceeding, you used, and do
    you recall your fee-generation matching game that
     we went through in those proceedings?
                I don't recall a game.
          0
                A fee generation category matching
     analysis?
 8
 9
                Now, in the 1999 proceeding, that
10
     particular methodology failed because of some
11
     methodological errors that you, eventually,
12
     conceded to; is that right?
13
                 I think that -- I do recall there were
14
     some errors. The transcript stands for itself.
     I'll point out that, in that case, because I
15
16
     didn't have the capacity to do what I did here, I
     did the matching game -- you got me there -- the
17
18
     matching process. But the matching process was
19
     very conservative compared to this process. This
    process is more accurate. I wanted, since I
     couldn't do the more accurate one, I wanted to do
     something which was very conservative, and so
```

Correct.

Now, in the 1999 proceedings, on the

A

Q

21

22

Q

means in this context.

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that's why I did it that way.

- Are you saying that in the 1999 case you were not capable of calculating an aggregate
- number of distant subscribers?
- In the -- I was not able to do this
- computation in the 1999.
- Did you actually calculate a measure
- of aggregate numbers of distant subscribers in 8
- 9 response to Judge Strickler's question during the
- 10 course of the hearing in the 1999 proceeding?
- 11 Yes. I mean prior to the submission
- 12 of my report. That, I recall, was a time
- constraint.
  - Now, so it's not because, again, SDC
- had the only claimed program on WGN in 1999,
- 16 whereas, in this proceeding, IPG had Creflo
- 17 Dollar claimed on WGN?
- 18 Absolutely not. I have never focused
- 19 on who has what or what the implications for the
- 20 outcome would be.
- 21 JUDGE STRICKLER: Even though you
- 22 didn't focus on it, did you know what the

- Did it inform your thinking about the
- methodology that you presented in your amended
- direct statement?
- I really don't know what you mean by Α
- that. What I'm saying is I read it, I thought
- that the Judges had some interesting things to
- say. And, you know, how one's mind works, I
- really, you know, I'm not a neurologist, but, you
- know, I have a bunch of information, I have the
- 10 data, I have my analysis, my methodologies, my
- approaches, and I put it together and I do the
  - best analysis that I can do.
- So you considered it?
- I considered it.
- Understanding that you're not a 15
- neurologist, are you a future teller? At the
- 17 time you prepared your amended direct statement
- in this case, the Judges hadn't issued their 18
- 19 opinion in the 1999 cable case.
- 20 Then I must be thinking about the 2000
- 21 to 2003 case. I'm not, you know, if you want me
- 22 to try to remember that level of detail, there's

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- implications would be by doing it this way with
- regard to the programs on WGN?
- DR. ROBINSON: I was not aware whether
- one party had it on WGN and the other one didn't
- or any of that, if that's what you're asking.
- JUDGE STRICKLER: That is the
- 7 question.

- DR. ROBINSON: No.
- 9 JUDGE FEDER: Were any of the changes
- 10 in the methodology done in response to statements
- 11 in the decision that we rendered in that case?
- DR. ROBINSON: That decision 12
- certainly, you know, informed my thinking about the issues here. So I would say, as a general 14
- principle, yes, but I'm not sure I could tie a 1.5
- 16 particular change to it.
- 17 BY MR. MACLEAN:
- The Judges' decision in the 1999 cable 18
- 19 case informed your approach in this case that
  - we're here today?
- 21 Informed my thinking about the issues
- in these proceedings.

- so many documents, so much data, so many
  - opinions, I don't know what else to tell you.
  - Plus, at some point, I guess there's the
  - rebuttal, so you're talking about the direct or
  - the rebuttal, I don't know. Whatever I had, I
  - considered and I used.
  - Well, in fact, your amended direct
  - statement in this case was submitted on July 7,
  - 9 2014, right?
  - 10 А Would you like me to look it up?
  - 11 MR. BOYDSTON: Your Honor, objection.
  - This is becoming argumentative. The record can 12
  - 13 speak for itself as the timing of these various
  - 14 events.
  - JUDGE BARNETT: Sustained. 15
  - JUDGE STRICKLER: Well, do you have 16
- 17 the date in front of you as to the determination
- in the 1999 proceeding? 18
- 19 MR. MACLEAN: It was in December of
- 20 2014, your Honor.
- 21 JUDGE STRICKLER: Thank you.
- 22 BY MR. MACLEAN:

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But I also wanted to ask whether she considered, in coming up with her amended direct statement in our case, whether you considered the SDC's rebuttal in the 1999 case and whether maybe that would have been a factor in your decision to change methodologies? I made no decision to change methodologies. Let's be clear. You're acting as if I started with '99 and said what do I do? No. 10 I approached this fresh. 11 Okay. And then so let's go to your 12 third factor, which is number -- I'm sorry, one 13 moment please. Your third factor, well, your other factor, time of day, we've talked about that to some degree so far already. In your amended direct testimony, what we just read, you 17 said, "Ceteris paribus, more viewers watching 18 programming during the time of day of the 19 broadcast may indicate more valuable 20 programming, " correct?

programming during the time of day of the broadcast may indicate more valuable programming,

you meant more valuable programming to the CSO,

correct?

It all plays in. The underlying economics is that advertising and viewership

matter. With respect to the CSO, the CSO is more

focused on subscribers and what kind of

programming is going to bring in subscribers. So

1.0 the link. I mean, it would be great to have a

nice model linking subscribership and viewership. 11

12 and Dr. Gray and I both look at that in our

13 subscriber regression analyses. But we don't, at

14 this point, have a good model that links

subscribers and viewers. I'll note that Dr.

Erdem uses subscribers in the place of viewers in

order to estimate viewers in a way that, by

construction, makes his viewership estimates

19

20 JUDGE STRICKLER: A question for you,

21 Dr. Robinson. Excuse me, counsel. Viewership to

a CSO, a cable system operator or a satellite

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system operator, isn't it also not only a form of

consumption by its customer, isn't it also a form

of advertising in that, if I'm a CSO, I want

individuals, subscribers or would-be subscribers,

to view programs, like the programs, want to view

my programs again, and, therefore, subscribe so

that viewership is important because I want

eyeballs on my program so I can get future

subscriptions or retain existing subscriptions,

11 DR. ROBINSON: Yes, and I think that

12 goes, again, to this issue of how do we model

13 that relationship between viewership and

14 subscribership? So what is it that, you know --

some viewers are worth more because they're

stickier, right? Some shows are worth more 16

because people will subscribe just on the basis 17

of being able to see that show. 18

19 So there's a whole kind of complexity

20 to model this relationship, but, as an

21 overarching principle, without knowing what

happens inside that black box, viewership is in

1 Well, advertisers care about viewers

That's what it says.

Why?

looking at their advertisements, and advertisers

are willing to pay more to advertise when they

can reach more viewers. They may have an opinion

about what kind of viewers they want to reach,

etcetera. But at any rate, let's just simplify

it and say more viewers. And that kind of

underlying feature of economics of this business

is going to influence the values here. Even

10 though the hypothetical negotiation here is

between the CSO and the copyright holder, the 11

12 underlying economics of the advertising is going

13 to matter, and that's why viewership matters.

14 So if that's true, then wouldn't it be 15 even more true that, ceteris paribus, programs

16 with more viewers are likely to be more valuable?

MR. BOYDSTON: Objection, incomplete. 17

More valuable to whom, which, of course, is the 18

19 current question.

21

22

JUDGE BARNETT: Sustained.

21 BY MR. MACLEAN:

When you said more viewers watching

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there and, ceteris paribus, everything else

- 2 equal, viewership up probably means that
- 3 everything in that black box is going to suggest
- a higher value.

6

- 5 JUDGE STRICKLER: I understand there's
- a level of complexity, no doubt, to what's in
- that black box. But would you agree that
- 8 viewership, the difference between what a cable
- 9 system operator or a satellite system operator,
- 10 how they perceive viewership and how an
- 11 advertiser on a broadcast station perceives
- viewership, the distinction that we've been
- making is not really so clear-cut because both of
- them want eyeballs on the program.
- 15 If I'm advertising my car dealership,
- 16 I want people to view it and have some of those
- 17 people come down to my dealership and buy a car
- 18 from me. If I'm a cable system operator, I want
- 19 some people to watch my program that I've decided
- 20 to transmit or, in this case, retransmit, so that
- 21 they continue to be subscribers so they come on
- 22 down not to my car dealership next month but they

- 1 is simultaneously consuming and paying for that
  - 2 consumption and using that consumption to make a
  - 3 decision as to whether to consume in the future.
  - 4 DR. ROBINSON: Exactly.
  - 5 JUDGE STRICKLER: It's that future
  - 6 determination that's parallel to the automobile
  - 7 dealer. When I watch a car dealer or when I
  - 8 watch a commercial for an automobile dealership,
    - I'm not paying to take a spin around the block.
  - DR. ROBINSON: Exactly.
  - 11 BY MR. MACLEAN:
    - Q Now, your time of day methodology,
  - 13 although based on viewership-related information.
  - 14 does not distinguish between the number of
  - 15 viewers between program by program; is that
  - 16 right?

12

17

- A It doesn't distinguish between IPG and
- 18 SDC programs.
- 19 Q So by your methodology, it doesn't
- 20 distinguish between any two sets of programs?
- 21 A Correct.
- 22 Q So by your methodology, a program

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- come on over to my cable system and subscribe
- next month and I can keep charging their credit
- 3 card. So the distinction is, from an economic
- point of view, a bit artificial; isn't it?
- DR. ROBINSON: I think that's a very
- 6 good point and I do think that that dynamic is
- 7 there. Essentially, what you're saying is, as I
- 8 understand it, is that the cable system operator
- 9 is advertising its own shows by virtue of showing
- 10 its shows.

- 11 JUDGE STRICKLER: Isn't that the very
- 12 nature of an experience good? When you
- 13 experience good, you want somebody to consume so
- 14 they can experience it and buy more of it.
- DR. ROBINSON: Exactly. But what I
- 16 would say then is that it's not of equal, kind of
- 17 order of magnitude proportions, so that the
- 18 advertiser cares who's selling cars. The only
- thing that they care about is viewers, whereas in the cable system operator it's more complicated.
- 21 That's a piece of it but --
- JUDGE STRICKLER: Because the viewer

- broadcasts opposite the Super Bowl is credited
- with the same value under that factor as the
- 3 Super Bowl itself?
  - A The time of day factor simply is
- 5 exactly what it says. It doesn't distinguish
- 6 between the programs at all.
  - Q And the Judge has found that same
- 8 problem with your time of day analysis in the
- 9 1999 proceedings, right?
- 10 A I don't think that I'm going to try to
- 11 recall the specific proceedings and the specific
- 12 comments of the Judges with respect to specific
- 13 proceedings.
- 14 Q Okay. Well, whether you're aware in
- the 1999 proceedings or not, you are now familiar
- 16 with the practice of counter-programming,
- 17 correct?
- 18 A Yes.
- 19 Q So television stations will sometimes
- 20 avoid putting their own most popular programs in
- 21 time slots opposite the most popular programs of
- 2 their competitors, right?

107 105 There's -- yes, there's two And so let's just look for a second at B and C here, column B would suggest that, in strategies. There may be more, but there are two 2004, devotional, an IPG hour, the average IPG that I'm aware of. Sometimes, you want to put a hour was on at a time of day that is 85.45 highly-rated program because you want to compete percent as valuable, in your methodology, as an and sometimes you want to put a low-rated program because you don't want to compete. So that's a SDC hour, correct? I'm really confused because I thought programming strategy decision. There's a reason that it says "may" you were talking about column C, and then you and a "why" in that sentence. Yes, I recognize started talking about column B. Right. I'm saying columns B and C. 10 that this is not an analysis where I am, where I 10 I thought you said C and D. So, yes, have specific data about specific programs, so 85 percent is the -- this 85 percent relates to 12 it's an overview idea that, you know, in general, 12 13 on average, holding everything else equal, you 13 SDC being 100 percent. And in column C now, in addition to would expect that you may have more value in time IPG programs being on at 85.45 percent as periods where there are more viewers watching. valuable a time slot, on average, IPG programs 16 I think you responded to a question 17 from Judge Feder earlier that you did not take 17 are also distantly re-transmitted by CSOs paying day of week into account. 56.49 percent of the fees, right? 18 18 19 Correct. The average was across all 19 Correct. 20 days of the week. 20 Those are two separate factors, right? 21 Q Would you expect viewing on weekdays 21 A Yes. 22 to differ from viewings on weekends? 22 0 Every CSO has the same 24 hours of the 108 106 day to fill, right? I would. But you didn't take that into account? Α Yes. So according to this methodology, IPG programs are less valuable than SDC programs Now, you are aware that many religions recognize a certain day of the week as special or because they're in less favorable times of day, holy? so to speak, right? 7 I'm aware. A Correct. And that, under most Christian They are also less valuable, according 9 denominations, that day is a Sunday, right? 9 to this methodology, because they are retransmitted by CSOs that pay less fees, right? 10 А I'll say yes. 10 Yes. 11 You're aware that you didn't take that 11 But you didn't multiply these factors 12 into account when allocating value to devotional 12 0 together, did you? 13 programs? 1.3 14 Α I already said I treated the whole, 14 I put the factors here, and they're, it's an average across the whole week. 15 you know, they can be seen. I think that, 15 conceptually, there's some reasonableness to the 16 Now, let's take a look again at 260, 16 17 IPG Exhibit 260. Now, your separate columns 17 idea of multiplying the factors. I think the 18 under your valuation factors and your scaling 18 problem is that the factors are probably 19 factors, I believe you said are different correlated with each other, and so that creates a measures of value, right? problem with the multiplication. If you can take 21 They are different indicators of out the correlation piece, then you can multiply 22 value.

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109 Certainly, fees paid by CSOs is Similarly, if you're looking at the fees paid, the fees paid are a function of the correlated with the number of distant number of distant subscribers. So it's really subscribers, if you can -about how many subscribers are probably available Well, I think it's clear you couldn't to be watching. They're both really getting at use C and B, could you use C or B. how many viewers are you going to get: and the But I think we already agreed that more subscribers you have, the more viewers you every CSO has the same number, the same 24 hours to fill, right? might have and the more popular time of day the more viewers you might have. So I think that we What does that, I don't know what that can know that there may be a correlation between has to do with anything, but okay. 10 11 Well. CSOs who have -- every program 3.1 the number of viewers that come about because we 12 is on at some point during those 24 hours, right? 12 observe using the time of day and the number of 1.3 Δ Ves. 13 viewers that we observe based on the fees paid. Every station is broadcast or perhaps So, conceptually, again, multiplying 15 them together is a, makes sense. And the issue In 24 hours in a day I think is what that remains is whether or not they're 16 17 you're saying, yes, I agree with you. correlated. 17 18 Exactly. Thank you very much. Okay. 18 Q Number of subscribers doesn't vary 19 So there wouldn't be any reason whatsoever to based on time of day, does it? think that the time a program is on would have 20 I don't think you're understanding

110

hours a day?

2 A No, that's not, I think, a correct

any correlation with the fees paid by the CSO

since every program is on a station that has 24

interpretation. The time of day factor simply

speaks, not having viewing data on specific

programs and only having viewing data, because I

6 did not have that data when I prepared this, did

not have the viewership data, individual

8 viewership data, the time of day says, okay, we

understand that there's a distribution, national

10 distribution of viewership over the time of day,

ll let's apply that in a way that says, as I think

12 you put it, nicely saying sort of, you know, more

13 favorable times of the day, on average.

14 But why does that lead to value?

Without being too specific about what happens

16 inside the black box of viewership and

17 subscribers, let's just say that viewership is a

 $18\,$   $\,$  good measure, then the times of day where there

19 are more viewers, you're more likely to get, you

20 have more value because you're more likely to get

21 more viewers because that's a popular time of

22 day

9

15

not correlated with time of day?

A It's the viewers -- all I'm saying is,

what I'm saying, but, no, it doesn't.

A It a the viewers -- arr I m saying is

Therefore, number of subscribers is

3 if you have more subscribers, you have more

4 potential viewership. That's what I'm talking

5 about.

21

22

6 JUDGE FEDER: Dr. Robinson, you kind

7 of prefaced this by saying that you didn't have

8 direct measurements of viewership when you

9 performed this analysis. The types of data that

10 were provided to you, did you -- which came

11 first, the chicken or the egg? Did you have an

analysis in mind and asked counsel for particular

13 types of data, or did counsel provide you with

14 particular types of data and you constructed an

15 analysis making use of the data that you had

16 available?

12

17

DR. ROBINSON: I think it's the

18 former, if I remember the order. But I had an

19 analysis in mind. I asked for data. I asked for

the specific viewership data. I didn't get it

until the MPAA produced that data in, I think it

22 was August.

113 115 JUDGE FEDER: But if you had your said you had done that combined methodology

druthers, you would have used viewership data,

particular program viewership. It's just that

was not available to you, so you used what you

did have?

DR. ROBINSON: Right. And I probably

would have used both, again, sort of coming at it

from every direction. But yes.

JUDGE FEDER: Okay. So do you know

what or who determined what data was available to 10

11 be provided to you?

DR. ROBINSON: Well, it was my

13 understanding that the data existed because Dr.

Gray had used it. But for whatever reason, it

was not produced or available to me.

JUDGE FEDER: How did you decide what

17 Dr. Gray used? You were provided with certain

types of, you know, the Nielsen day part analysis

and so on. Who obtained that, who chose that

20 particular data set to provide to you?

21 DR. ROBINSON: When I asked for the

data, I asked for the data that I wanted. Some

that's not been allowed in this proceeding?

DR. ROBINSON: I would have done this.

and I also --

JUDGE STRICKLER: I'm sorry. Which is

"this?"

DR. ROBINSON: I'm sorry. I would

have done what I did do, and I also would have

done what I did in the combined methodology. I

would have done both.

JUDGE STRICKLER: Thank you.

12 BY MR. MACLEAN:

13 You had MPAA's -- for at least the

years 2000 through 2003, you had MPAA's distant

HHVH data by quarter-hour and station, right?

In August I received that data.

Well, you had some kind of HHVH data

from MPAA that you used to calculate your time of 18

day analysis, didn't you? 19

20 Tribune data on broadcast hours, not

21 viewership data.

22 0 Well, you had your Tribune data,

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of the data, as I said, I got and some I didn't.

17

So for example, it's my understanding that the

data that I asked for that I didn't get was too

expensive or otherwise unavailable to obtain.

5 JUDGE FEDER: Thank you.

JUDGE STRICKLER: If you had the data

7 that Dr. Gray had available, following up on

Judge Feder's questions, if you had that data available to you and the data that you did get

10 from IPG, would you have still engaged in the

11 same analysis or would you have engaged in a

12 different analysis, now that you know what the

13 MPAA and Dr. Gray had available?

DR. ROBINSON: Well, now that I have 14

15 the data. I did do an analysis with it.

16 JUDGE STRICKLER: That's not my

17 question. I understand you did do it, and that's

18 what we disallowed, that combined methodology.

19 But my question is if, ab initio, you had that

20 information data that Dr. Gray had and also the

21 data that you do have in this case from IPG,

which methodology would you have used, or you

right?

Yes.

For a number of different stations

that, to some degree, matched Dr. Gray's stations

for that matter, right? Is that right?

Yes. You also had viewership data

that you used to add it up, summed it up and used

for calculation of your time of day analysis,

10 right?

12

20

Yes. I guess the data -- what I

didn't have was the full print option and backup

13 that allowed me to understand what the data

14 represented and use it in a more complete way.

15 You do know how to conduct a merger

16 between Tribune data and quarter-hour Nielsen

17 data?

18 Α It is not a simple process.

19 0 I'm not asking if you had the ability

to replicate MPAA's. You had the ability to do

21 it yourself, right?

There are thousands of lines of code

117 119 "census" was only used in satellite and not that go into performing that, and it also requires having an appropriate list of titles and other issues. And it really was not a feasible MR. MACLEAN: Let me rephrase. I'll thing to do without the full backup and withdraw that question. production. BY MR. MACLEAN: I'm almost done here, actually. We So let's just talk about satellite. talked a little or you talked earlier a little When you talk about a census, you're talking bit about your data covering 90 percent or so, about a census in terms of numbers of, either amount of fees or amount of subscribers, not in some high percentage of the population, I believe vou said. distantly re-transmitted stations. 10 11 I think they were revised numbers. It 11 Amount of fees, yes. 12 was 69 percent to 80 percent of the fees. But your sample was of distantly re-12 13 0 That's in cable, right? transmitted stations, right? 13 I can go back and check. If you'd The observations in the data are at 14 Α 14 15 like to assert that -the stations level. 15 16 Well, it's a big difference, right? Now, let's go to the cable sample, 16 Q 17 Because in cable, you had a stratified random okay? You used a stratified random sample? 17 18 sample. 18 Yes, that's right. Weighted heavily in favor of strata And in satellite, you did not have a 20 based upon fees paid; is that right? random sample; is that right? I think the process is quite clearly Right. So in cable, it was 69 to 80 laid out in the document, and so, yes, there are 120 118 percent of the fees, and in satellite it was 98 more -- it's a well-conducted standard method for to 99 percent, I believe. I can look up the stratifying the sample, and in such sample there chart if you'd like. are -- I forget how you put it. The larger stations. There's a higher percentage of the I'm not so worried about the exact larger stations than there is of the smaller percentages as I am about the percent of what here because there are hundreds of distantly restations, if that's what you're asking. transmitted stations, right? And when you say larger stations, you Yes. mean the stations that are attributed more fee You only had maybe 100 to 150 or so generation? for each year; is that right? That's what I mean. 11 In fact, in your top strata, you have 12 So there are hundreds of stations for 12 100 percent. 13 each year that you didn't have. 13 Which is exactly as it should be. 14 Correct. 14 0 In lower strata, you have lower 15 0 In both cable and satellite. 15 percentages. 16 Correct. 16 So when you call it a census, you 17 17 0 When you get towards the bottom really mean enough to cover a certain percentage 18 18 strata, you're just talking maybe about five of either fees or number of distant subscribers. 19 19 percent or so. 20 right? 20 I don't recall the numbers, but I 21 MR. BOYDSTON: Objection. I think it 21 don't think I'd disagree with the process. misstates the testimony because I think the word 22 You do not apply a sampling weight by

123 121 other issues about the sampling process than strata, do you? consideration of the sampling weight. Also I do not. recognizing that Dr. Gray did not use a sampling Why not? Dr. Grav does not either. weight, I just didn't do it. If I were to do it over again, I would probably incorporate a Are you sure about that? 0 Yes. I am. We both weight by the sampling weight. BY MR. MACLEAN: number of minutes in the broadcast but not by a sampling weight. Now, as we said, your weighted stratification was based on fees generated, 0 10 So there's a level of complexity in 10 correct? Let me just, let me put it this way. 11 the process of selecting and working with the Having, through your weighted stratifications, selected your sample, fees generated is also one stratified random sample, and I outlined quite 12 clearly in my report how and why I did it the way of your valuation factors, right? I did. I do think there is an argument that can 14 be made for using sampling weights and --15 So you were multiplying a weighted 16 I'm really looking for the argument 16 sample by fees generated as a valuation factor? 17 that can be made against using a sampling weight 17 I would agree that that, out of the 18 when you have a weighted stratified sample. 18 three factors, that would make that factor less 19 MR. BOYDSTON: Objection, your Honor, 19 compelling than the other two. argumentative. Good for the brief. Well, and of the other two factors, 20 20 21 JUDGE BARNETT: Sustained one is distant subscribers, which is closely 21 22 correlated with fees generated? BY MR. MACLEAN: 22 124 122 You're asking if it's closely Why didn't you use a sampling, why didn't you use a sampling weight by strata? correlated? MR. BOYDSTON: Objection. It was asked and answered. She explained and said I Yes, it's -- I'm not going to use it 5 didn't think it was necessary. as a technical term, but there's a relationship 6 MR. MACLEAN: I don't think she did between distant subscribers and fees because fees 7 explain that, your Honor. are based on distant subscribers. 8 JUDGE BARNETT: Would you make another So by the same argument, number of 9 distant subscribers would also be a less attempt, Dr. Robinson? 9 DR. ROBINSON: One of the things that compelling factor, having failed to comply 1.0 10 sampling weights by strata? 11 creates an issue when you're looking at a 11 Well, let me say also that the issue 12 stratified sample is, looking at each strata, 12 with the sampling weights is only reflecting that 13 what the number of, you know, potential draws 13 portion of the data that we don't have and how 14 from that strata that you can have. So we have 14 representative the results that we have are with 15 many more small stations than we have large 15 stations, so we were looking at a strata of large respect to that portion. So it's still a good 16 16 17 stations. You don't have as many to choose from. 17 measure for the portion that we do have. That's 18 So, in fact, kind of conceptually, you 18 actually want to pick more than 100 percent of And then number two -- I think I lost the large stations, but we can't do that because 20 my train of thought. Can you say the last part 20 21 we only had the ones that we have. So in any 21 of your question again? 22 case, I would say that I was focused more on 22 I think my only question is wouldn't

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the lack of a sampling weight -- you already BY MR. BOYDSTON: And did you believe that a confidence conceded the lack of a sampling weight by strata interval, reporting that operation was relevant would reduce the reliability of your fees or applicable to your methodology or your generated factor, right? Because you're applying calculations? fees generated factor to a stratified random 5 sample, weighted stratified random sample but Α I mean we always like to calculate confidence intervals when we can, or when it weights based on fees generated. Right. So I remember the question makes sense, but it was not applicable in this now. So, you know, the distant subscribers 9 10 metric is not identical to the fees paid metric. 10 In other words it's not an operation So I would say that it is a, you know, it is a that you could do for the type of calculation you 11 12 more compelling metric out of the ones presented 12 were doing, correct? 13 in this table than the fees paid by that standard 13 Correct. 14 and probably less so than the time of day. And along sort of the same lines, did 15 MR. BOYDSTON: Your Honor, just a Dr. Grav conduct a robustness check, or a robustness calculation to your understanding of brief break, I can tell you that my cross, my 17 redirect rather is going to be very short, for 17 his calculations? 18 18 what it's worth. Yes, I believe he did. 19

what it's worth.

MR. MACLEAN: Your Honor, I might be

just about done, but maybe not would be a good

time for our lunch break. Oh, it is. We are

20 Mand do you recall about, did you have

21 correctly or if it was effective?

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going to take our lunch break. We will be at 22 A It

22 A It was essentially impossible to know

1 recess until 1:00.

2 (Whereupon, the above-entitled matter

 $^{\rm 3}$   $\,$  went off the record at 11:59 a.m. and resumed at

1:13 p.m.)

20

21

5 WHEREUPON,

LAURA ROBINSON

was called for examination by Counsel for the

8 Independent Producers Group, having been first

duly sworn, assumed the witness stand, was

10 examined and testified as follows:

JUDGE BARNETT: Please be seated. Mr.

12 MacLean?

9

17

MR. MACLEAN: Nothing further for this

14 witness, Your Honor.

JUDGE BARNETT: Okay, thank you. Mr.

16 Boydston?

MR. BOYDSTON: Thank you, Your Honor,

18 REDIRECT EXAMINATION

19 MR. BOYDSTON: Dr. Robinson, you asked

20 about performing a confidence, calculating

21 confidence intervals, do you recall that?

22 THE WITNESS: Yes.

because what was produced, as I understand, and

what I saw was only two pages and it was not,

3 there was no backup, there was no code showing

4 how he ran those numbers or how he generated

5 them, so it's hard for me to know what he did

6 with those.

With respect to his confidence

8 interval though, I do note that one of his

9 estimates, I believe it was in 2006, is outside

10 of his confidence interval.

11 Q Now you've been critical of Dr. Erdem

for his use of relatively limited ratings data,

fair to summarize that?

14 A Yes.

12

13

15

Q And yet Mr. MacLean essentially was

16 suggesting to you that you too were using limited

17 Nielsen data for certain purposes and raising

18 that as an issue, do you recall that?

19 A Yes.

MR. MACLEAN: Objection,

21 mischaracterizes the testimony.

JUDGE BARNETT: Overruled.

131 129 THE WITNESS: I do recall, I mean they MR. BOYDSTON: Now my understanding though is that your use of that data was simply are, I've made so many charts with those data that it's a little hard to identify specifically, to come up with daypart viewing numbers, correct? THE WITNESS: So in the Column B as it but it's not, so I did computations, I did analysis studies and charts, I thought about it, were, my time-of-day metric, that's national viewing data averaged from I think it's 2000 to but it's not going into the numbers presented 2009 of Nielsen. It's not the 2000 to 2003 MPAA here on this page in the summary. JUDGE FEDER: Those are from, like data. MR. BOYDSTON: Okay. But that was from the daypart analysis that you got from 10 simply to establish the numbers for those 96 Nielsen that covers some period of what? quarter-hours per day, correct? THE WITNESS: 2000 to 2009, I believe, THE WITNESS: Correct. 12 ves, an average. 13 MR. BOYDSTON: Unlike Mr. Egan you 13 JUDGE FEDER: Okay. 14 weren't trying to extrapolate it over ten years 14 MR. BOYDSTON: Nothing further. 15 or something like that for -- Or, excuse me, you 15 MR. MACLEAN: Your Honor, could I 16 were trying to estimate a 24/7 figure for 365 16 recross on that last question? 17 17 TUDGE BARNETT: You may. days a year for each station, correct? MR. MACLEAN: May I do it from here. 18 THE WITNESS: No. it's a completely 18 different exercise. I wasn't trying to use an Your Honor? 1.9 19 estimation period here and estimate something JUDGE BARNETT: Yes. 20 20 RECROSS EXAMINATION 21 over there, I was just looking at an average over 21 22 MR. MACLEAN: Dr. Robinson, could you the years to use for the same years. 132 130 JUDGE STRICKLER: You meant Dr. Erdem? please turn to your amended direct statement, You meant Dr. Erdem when you said Mr. Egan, cable, in the supplemental portion of your right? report? MR. BOYDSTON: I did, thank you. I JUDGE FEDER: Do you have a paragraph did mean Dr. Erdem, thank you, Your Honor. number? JUDGE FEDER: Excuse me. I'm getting MR. MACLEAN: Yes, Your Honor, Paragraph 18, which is on Page 14 of the a little confused here. What did you use the 2000 to 2003 distant viewing data for? supplement. THE WITNESS: Well the main thing that 9 MR. BOYDSTON: Did you say cable? 10 I used it for was to replicate and analyze Dr. 10 MR. MACLEAN: I said cable. Gray's analysis and the implications of various 11 MR. BOYDSTON: Thank you. 11 assumptions and things like that. THE WITNESS: Sorry, can you tell me 12 12 13 In terms of the numbers showing up 13 the paragraph again? here on Table 8, that Column B is coming from a MR. MACLEAN: Paragraph 18, this is in 14 14 15 2000 to 2009 Nielsen viewership. I can find the 15 the supplement not in the original report, 16 footnote if you want that identifies --Paragraph 18 which is on Page 14. JUDGE FEDER: But apart from your JUDGE FEDER: And this has Table 6-C analysis and critique of Dr. Gray's report, did 18 at the top of the page? he use those 2000 to 2003 distant viewing, 19 MR. MACLEAN: Correct, Your Honor. Nielsen distant viewing data numbers for any 20 JUDGE FEDER: Thank you. THE WITNESS: And Table 6-C is that 21 purpose in your analysis of relative market 21 what I should be looking at? 22 value?

135 133 MR. MACLEAN: No. Is it not your testimony that this an BY MR. MACLEAN: error? No, I don't -- I'm sorry, I don't Below Table 6-C is Paragraph 18, do you see that? understand what you are saving. Well because Dr. Gray only used sweep А Oh, yes, okay. This was the right 0 page, okav. data for his distant HHVH data, isn't that right? The third sentence in that paragraph He used some of the 2004 data, too, 0 says "Viewership by time of day is based on here. I'm not sure what you are asking me. information from the Nielsen media research on Well this is your description here of daily television viewing by distant viewers in the data that you used, correct? Okay. All right, let me read it 2000 through 2004 for selected stations by time of day in quarter-hour increments," do you see again. 12 that sentence? 13 So are you referring to sweep data used by Dr. Gray? 15 And there's a Footnote 9, do you see 15 This says "This Nielsen data includes Footnote 9? data for the six sweep cycles from 2000 to 2003 16 17 Α 17 plus the first two sweep cycles of 2004." So 18 Q And do you see it say "I understand 18 this computation that Footnote 9 is referring to 19 that this information was produced to IPG in the is relating to the 2000 to 2003 plus a little bit 2000 to 2003 Cable Royalty Distribution 20 of 2004 data that Dr. Gray used and produced. 21 Proceedings Phase II." Dr. Gray's distant HHVH data, correct? 21 22 In the 2000 to 2003 Cable Distribution 22 Α Yes. 134 136 Proceedings did MPAA produce Nielsen data for Yes. And that's what you used to 2004 and beyond, 2004 to 2009? calculate viewership by time of day as it says in Let me find something here. 3 that sentence in Paragraph 18? Let me ask you 4 Supplemental Report. If you want me to be able this, Dr. Robinson, who wrote Paragraph 18 of 5 to identify the use of the 2000 to 2003 Nielsen this report? 6 data versus the 2000 to 2009 Nielsen data I'm I wrote Paragraph 18 of this report. probably going to need about five or ten more And who wrote Footnote 9? 8 minutes to review. I wrote Footnote 9. This footnote isn't sufficient to MR. MACLEAN: No further questions, 0 9 10 answer that question? 10 Your Honor. 11 No. because that means it was used in 11 MR. BOYDSTON: Nothing further. that chart, but I don't think, but I know that I 12 MR. OLANIRAN: Nothing further, Your 12 13 used the 2000 to 2009 data and I'm pretty certain 13 Honor. 14 that what goes into the computations that lead to 14 JUDGE BARNETT: Thank you, Dr. 15 my relative market value shares is the 2000 to 15 Robinson. 16 16 MR. BOYDSTON: I guess that brings our 17 Okay. And if you take a look at the 17 case to its close. During the break I consulted 18 last sentence of Footnote 9, "This Nielsen data with Ms. Whittle and with counsel and with regard 19 includes data for six sweep cycles from 2000 to to the direct statements and amended direct 20 2003 plus the first two sweep cycles of 2004," do statements of Mr. Galaz and Dr. Robinson there 21 you see that? 21 were two for each, because that was before we 22 A I do. formally combined cable and satellite, so we came

137 139 also a slight renumbering of the Robinson up with enumeration for the exhibits that takes evhibits that into consideration. JUDGE BARNETT: They are admitted so 3 I'd like to kind of just briefly read into the record, I've gone over it with a finelong as everybody knows what we're talking about. (Whereupon, the above-referred to tooth comb with Ms. Whittle and with counsel, but I'd like to do it and then make sure that on the documents was received into evidence as IPG Exhibit Nos. 249, 249A, 250, 250A, 287, 287A, record everything is deemed admitted. JUDGE BARNETT: Thank you. 288, 288A, 251, 252, 289, and 290.) JUDGE BARNETT: You confirmed that MR. BOYDSTON: May I begin? JUDGE BARNETT: You may. 10 with counsel, correct? 11 MR. BOYDSTON: Exhibit 249 is the 11 MR. BOYDSTON: Yes. 12 Galaz direct statement regarding cable. What's 12 JUDGE BARNETT: Okav. 13 now a new designation, 249A, is the Galaz direct 13 MR. BOYDSTON: We went over it 14 statement regarding satellite. 14 carefully. I think everyone knows what we're 15 Exhibit 250 is the Galaz amended 15 talking about. direct statement for cable. Exhibit 250A is the 16 16 MS. PLOVNICK: Yes, Your Honor. 17 Galaz amended direct statement for satellite. 17 MR. MACLEAN: And, Your Honor, if I 18 With regard to Dr. Robinson, Exhibit 18 may, admitted subject to objections as always. 19 287 is the Robinson direct statement for cable. 19 JUDGE BARNETT: Absolutely, yes. Exhibit 287A is the Robinson direct statement for 20 20 MS. PLOVNICK: Thank you, Your Honor. 21 satellite. 21 MR. BOYDSTON: So they're being 22 Exhibit 288 is the Robinson amended 22 admitted subject to that, yes?

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direct statement for cable and Exhibit 288A is
     the Robinson amended direct statement for
     satellite.
                 And I move that those as well as
     Exhibits 251 for Galaz rebuttal to the SDC and
     Exhibit 252, the Galaz rebuttal regarding MPAA,
     and 289, the Robinson rebuttal regarding the
     MPAA, and 290, the Robinson rebuttal regarding
 9
     the SDC be admitted subject to the written
10
     objections.
11
                 MR. MACLEAN: Subject to written
12
     objections and the rulings that you've already
13
     made.
                 MS. PLOVNICK: Yes, subject to written
14
15
     objections, Your Honor.
16
                 JUDGE BARNETT: Thank you. I'm not
17
     going to repeat all those numbers, the Court
18
     Reporter I presume got them all and the clerk.
                 MS. WHITTLE: It's still unclear on my
19
20
     records whether 249A and 250A are admitted?
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MR. BOYDSTON: Right, because we only

designated them now as well as the, there was

JUDGE BARNETT: Yes. MR. BOYDSTON: Thank you. MR. MACLEAN: Your Honor, my friends at MPAA have very graciously agreed to allow us to present our rebuttal witness first. JUDGE BARNETT: Okay. 7 MR. MACLEAN: He will be less than ten minutes, you may hold me to that, and along those 9 lines I take back everything I've said about MPAA 10 11 MR. OLANIRAN: We appreciate the 12 promotion. JUDGE BARNETT: I noticed you upgraded 13 14 them kind of step-by-step. 15 MR. OLANIRAN: Yes. 16 MR. MACLEAN: And so the SDC calls Dr. 17 Erkan Erdem. Your Honor, while Dr. Erdem is 18 coming in I would ask the Judges to take judicial 19 notice, and this is in response to a question by Judge Strickler, that the Judges' decision, 21 initial determination of distribution to the 1999

Cable Royalty Funds Phase II was issued on

141 143 December 10, 2014. said, or your stipulation said that testimony would be limited to material outside the written JUDGE BARNETT: Thank you. Welcome statements responsive to written statements or back, Dr. Erdem. You remain under oath. мнерепром oral testimony, and this is responsive to oral testimony. Overruled. ERKAN ERDEM was called for examination by Counsel for the MR. BOYDSTON: For the record I don't Settling Devotional Claimants, having been first think it's responsive to oral testimony. duly sworn, assumed the witness stand, was MR. MACLEAN: I'm sorry, Dr. Erdem, you just said removal of WDLI had no effect on examined and testified as follows: 10 THE WITNESS: Good afternoon, thank your methodology. Could you explain why? 10 THE WITNESS: Sure. Because there is 11 11 you, again. 12 REBUTTAL. 12 no rated and claimed devotional programming on WDLI in the Nielsen reports. 13 DIRECT EXAMINATION 1.3 14 MR. MACLEAN: Good afternoon, Dr. 14 MR. MACLEAN: In the entire time 19 Erdem. period in question? THE WITNESS: Good afternoon. THE WITNESS: That's correct. 17 BY MR. MACLEAN: 17 MR. MACLEAN: Did you triple check I just wanted to run a couple of quick 18 questions by you, quick points. First of all, 19 THE WITNESS: I checked it four times with regard to the television station WDLI there after you told me to check three times. 20 21 was testimony yesterday from CBC indicating that 21 MALE PARTICIPANT: What about five WDLI was the religious station that was ascribed times? 142 144 THE WITNESS: Later today. or assigned subscribers that should've been assigned to another station. MR. MACLEAN: If Mr. Galaz testified Last night did you investigate as to that there are twice as many SDC programs in the whether the removal of WDLI would have any effect time period in question than IPG programs would on the allocation determinations of your methodology? THE WITNESS: Could you repeat the And what were the results of that MR. MACLEAN: If Mr. Galaz testified 9 investigation? that there were twice as many SDC programs as IPG 10 It had no effect on my methodology. programs on WDLI in the time period in question 11 Why is that? 11 would that be accurate? 12 Because there was no claimed and rated 12 THE WITNESS: I don't see any SDC or 13 13 IPG claim program on the Nielsen reports. MR. MACLEAN: The second issue I want 14 MR. BOYDSTON: Your Honor, objection. 14 to raise with you is yesterday during Dr. This is not a rebuttal to our rebuttal, or excuse 15 me, this is a rebuttal to our rebuttal, this is Robinson's testimony there was some question 16 16 17 not a rebuttal to our case-in-chief. relating to your calculation of a correlation 17 coefficient and a regression coefficient. 18 This is his opportunity to rebut our 18 19 case-in-chief and what they're doing now is First of all can you explain the 19 they're rebutting our rebuttal, which is, you difference between a correlation coefficient and 20 21 don't get a rebuttal to a rebuttal. a regression coefficient? JUDGE BARNETT: I believe our order MR. BOYDSTON: Your Honor, I'm going

11	145	I	volume 147
	145		
1	to object again. My understanding was that we	1	Q What did you use that correlation
2	don't get to continuously rebut rebuttals.	2	coefficient for?
3	I understood what your ruling was	3	A I used the What did I use it for?
4	before, but I make a new objection for the record	4	Q Yes.
5	because I think this is taking this beyond the	5	A To establish that there was a
6	scope of the stipulation.	6	relationship between local ratings and distant
7	JUDGE BARNETT: Mr. MacLean, where was	7	viewing behavior.
8	this topic in any of the evidence that IPG	8	Q Did you care precisely what that
9	offered in the last day or two?	9	correlation coefficient was?
10	MR. MACLEAN: To my knowledge it is	10	A No, I didn't.
11	only in Dr. Robinson's oral testimony yesterday.	11	Q You just wanted to see that it was
12	MR. BOYDSTON: That would be her	12	high, positive, and significant?
13	rebuttal testimony.	13	A Exactly.
14	JUDGE BARNETT: Overruled, go ahead.	14	Q In the course of calculating a
15	MR. MACLEAN: Can you very briefly	15	correlation coefficient did you also calculate a
16	explain the difference between a correlation	16	regression coefficient?
17	coefficient and a regression coefficient?	17	A I did.
18	THE WITNESS: Sure. Correlation	18	Q Did you use that regression
19	coefficient tells us about the relationship	19	coefficient?
20	between two variables.	20	A No, I didn't.
21	It's a value between minus one and	21	Q Did you use it for any purpose
22	one, doesn't have a scale, and positive values	22	whatsoever other than to draw the graph of
	146		148
1	mean there is a positive correlation between two	1	Exhibit 5 in your amended testimony?
2	variables and a negative value means there's a	2	A No, I didn't, just like I didn't use
3	negative correlation between those two things.	3	the correlation coefficient.
4	Regression coefficient Go ahead.	4	Q Why didn't you use the regression
5	BY MR. MACLEAN:	5	coefficient?
6	Q I'm sorry, go ahead. You were about	6	A It's irrelevant in my model.
7	to explain what a regression coefficient is.	7	Q Why is it irrelevant?
8	A Regression coefficient tells us the	8	A I don't try to predict distant viewing
9	linear relationship between these two variables.	9	based on local data in my methodology. I
10	It is affected by the scale of the two variables	10	directly used local readings.
11	of interest here, which is different from the	11	So what I see in terms of magnitude
12	correlation coefficient.	12	for the correlation coefficient or the regression
13	And if you have a regression	13	coefficient are irrelevant.
14	coefficient you can write one variable as a	14	Q If you had used a regression
15	function of the other using that coefficient.	15	coefficient, now this regression coefficient you
16	Q With respect to 1999 ratings data and	16	calculated was a linear singular regression is
17	distant viewing data that you had did you	17	that right?
18	calculate a correlation code?	18	A That's correct.
19	A I did.	19	Q If you had used the regression
20	Q Did you use that correlation	20	coefficient that you calculated to predict
21	coefficient in applying your methodology?	21	distant viewing based on your model wouldn't it
22	A No, I didn't.	22	have changed the results?
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	149		151
1	A No.	1	JUDGE BARNETT: Okay, thank you.
2	Q Why not?	2	Thank you, Dr. Erdem.
3	A I am assuming you mean using a	3	THE WITNESS: Oh, thank you.
4	regression coefficient from 199 and predicting	4	JUDGE BARNETT: Any further rebuttal?
5	for the other years similar to what Dr. Gray does	5	MR. MACLEAN: No, Your Honor.
6	and in that case that would not make a	6	JUDGE BARNETT: Mr. Olaniran?
7	difference.	7	MR. OLANIRAN: Thank you, Your Honor,
8	Q Why not?	8	MPA calls Dr. Gray.
9	A Because let's say distant viewing	9	WHEREUPON,
10	equals their coefficient times and a local	10	JEFFREY GRAY
11	reading.	11	was called for examination by Counsel for MPA,
12	If I use that coefficient to predict	12	having been first duly sworn, assumed the witness
13	the distant viewing for other years for every SDC	13	stand, was examined and testified as follows:
14	and IPG show I would be scaling up or down every	14	JUDGE BARNETT: Good afternoon, Dr.
15	number I have as local rating for every show by	15	Gray, you remain under oath.
16	the same amount.	16	THE WITNESS: Good afternoon.
17	And when I used that eventual to	17	MR. OLANIRAN: May I proceed, Your
18	calculate a role of the shared, those	18	Honor?
19	coefficients will cancel out. I will end up with	19	JUDGE BARNETT: Yes.
20	the same percentages.	20	MR. OLANIRAN: Thank you.
21	MR. MACLEAN: Thank you, no further	21	DIRECT EXAMINATION
22	questions.	22	MR. OLANIRAN: Good afternoon, Dr.
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,	150		152
1	CROSS EXAMINATION	1	Gray. Before I get into the substance of your
2	CROSS EXAMINATION  MR. BOYDSTON: Dr. Erdem, with regard	2	Gray. Before I get into the substance of your testimony, you testified a couple of days ago and
2	CROSS EXAMINATION  MR. BOYDSTON: Dr. Erdem, with regard  to Station WDLI, when you looked at WDLI did you	2	Gray. Before I get into the substance of your testimony, you testified a couple of days ago and you had an exchange with Judge Strickler about a
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155 153 MR. OLANIRAN: Your Honor, I move to Yes, I did. admit MPA Exhibit 379. JUDGE BARNETT: Mark this MPAA 379. JUDGE STRICKLER: Dr. Gray, when did MALE PARTICIPANT: You spoke so softly you prepare this? I don't know if he heard it. THE WITNESS: That was Monday evening, JUDGE BARNETT: Oh, Mr. Wojack, this or maybe it was Tuesday evening. I don't recall is marked as MPAA 379. MR. OLANIRAN: Yes, Your Honor. exactly when. JUDGE STRICKLER: You don't recall if TUDGE BARNETT: 3-7-9. (Whereupon, the above-referred to it was Monday or Tuesday? 9 document was marked as MPAA Exhibit No. 379 for THE WITNESS: Correct. 10 10 identification.) 11 MR. OLANIRAN: But I believe we 11 MR. OLANIRAN: Dr. Gray, do you --12 provided to opposite counsel I believe on 12 13 13 (Off the record comments) Wednesday. MR. OLANIRAN: Dr. Gray, you should 14 JUDGE BARNETT: Oh, not just now? 14 have in front of you a document pre-marked as 15 MR. OLANIRAN: No. 15 16 MPAA Exhibit 379, do you recognize that document? 16 JUDGE BARNETT: Okay, all right. MR. OLANIRAN: And, Dr. Gray, just to 17 THE WITNESS: Yes, I do. 17 MR. BOYDSTON: Your Honor, I object. 19 They never provided us with this underlying data 19 JUDGE BARNETT: Oh, well it's been 20 even though this has been apparently several 20 offered and I haven't heard from --21 days, well it was several days ago when the 21 MR. MACLEAN: No objections. question came up. 22 MR. BOYDSTON: I'm sorry, I don't 156 154 recall getting this until now. 1 So we object on the grounds that we didn't get the underlying data for it even though MS. PLOVNICK: No. I emailed it to it must have been available before now. you Wednesday. MR. OLANIRAN: May I --MR. BOYDSTON: Okay. I didn't recall. 5 JUDGE BARNETT: You may. JUDGE BARNETT: 379, is that the MR. OLANIRAN: Actually as my next number we're on? question, assuming the exhibit came in, was going MR. OLANIRAN: Yes. JUDGE BARNETT: 379 is admitted. to be whether or not IPG could have replicated (Whereupon, the above-referred to this analysis because they do in fact have the document was received into evidence as MPAA 11 JUDGE BARNETT: Overruled. 11 Exhibit No. 379.) 12 MR. OLANIRAN: Thank you. And I had 12 JUDGE BARNETT: Now you may ask 13 asked you if you recognized the document and what 13 questions. 14 is the document, just tell me what the nature of 14 MR. OLANIRAN: And, Dr. Gray, just to be clear, would Dr. Robinson have been able to 15 the document is without getting into the 15 replicate the content of Exhibit 379? 16 substance? 16 THE WITNESS: The document shows some THE WITNESS: Yes. She has all of the 17 17 18 underlying data to replicate this. 18 regression robustness checks I did in response to MR. OLANIRAN: And to be more specific 19 the Judge's homework assignment. 19 MR. OLANIRAN: Okay. And you prepared what are the underlying data that you used to --20 20 21 21 MR. BOYDSTON: Your Honor, just this yourself? THE WITNESS: Yes, I did. another objection for the record. When we got

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this Ms. Robinson was already testifying and so we could not speak to her about this, present this to her, or ask her to try to replicate it. And, therefore, we had no opportunity to be able to have our witness even understand what's behind this, and so I object on those grounds. JUDGE BARNETT: Thank you, Mr. 9 Boydston, but the robustness issue arose in the written papers, it didn't just arise here. 11 Wasn't there a robustness test in your written 12 testimony? 13 MR. BOYDSTON: Well but this came, 14 this was in response to a question by Judge 15 Strickler, not something -- It hadn't been done in his papers, Judge Strickler asked if he would 17 perform that. JUDGE BARNETT: Is that correct? THE WITNESS: That is correct, yes. JUDGE BARNETT: Oh, okay.

MR. BOYDSTON: Well it is --

whether or not Dr. Robinson would've had the time

JUDGE STRICKLER: Also, excuse me.

saying the Judges asked the question.

MR. OLANIRAN: Understood.

JUDGE BARNETT: It was not part of her

testimony, it was not part of Dr. Gray's original

testimony, but we opened the box so we would like

to give everybody an opportunity to close the

MR. OLANIRAN: Dr. Grav, could you

please explain what's going on with respect to,

explain what you have done with respect to MPAA 10

11

THE WITNESS: Yes. I guess I'll just 12

13 walk you through the table and read for this

14 right to left.

15 For example, on the first panel where

16 I have "Cable," the final column where it says

"All," are actually the results that are in 17

written rebuttal testimony, both for cable and

satellite.

And so what that means is those are 20

21 results where I used the 2000 to 2003 time period

to perform my regression analysis to get the

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correlation between local ratings and subscribers

and distant viewers and then extrapolate it out

across the entire time period.

Then the next step I did, and as I

explain I think you'll see why it should be

relatively straightforward and easy for Dr.

Robinson to replicate, is I took the same exact

program and then just used the 2000 data and ran

the same regression, the same sort of structure,

and extrapolated out to everybody, and that would

1.1 be the first column.

JUDGE BARNETT: Did it make that

13 sound?

12

14 THE WITNESS: Yes. I apologize to the

15 Court Reporter. And then, so, again, the first

16 column for 2004, 2000 cable is 99.42, et cetera,

17 and then for the next column I did the same thing

but I only used the 2001 data and performed the 18

regression analysis and then did the predictions 19 for the entire period, and so forth for 2002 and 20

2003. 21

I'll talk about satellite next, but

to do this sort of speculative exercise because you don't recall receiving it on Wednesday by email anyway so you never had a chance to answer it. MR. BOYDSTON: Well my client remembers receiving it. A lot went on Wednesday night. I know that we received it based on what my client says and we didn't forward it to --JUDGE BARNETT: Let me cut to the chase. This was a question by one of the panel and so we would like to have the answer. You will have an opportunity to respond in your written materials that we expect to come flowing 15 in after this hearing is over. MR. OLANIRAN: But in all fairness, 16 17 Your Honor, this particular robustness issue is 18 actually Dr. Robinson's criticism of Dr. Gray and to the extent that she wanted to do a robustness test she had all of the data to do that test. 20 21 She chose not to.

JUDGE BARNETT: That's fine. I'm just

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what you'll see is I would describe that as
fairly stable across the four periods using each
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- 3 year individually and reasonably similar to using
- all of the periods polled, if anything to, you
- 5 know, just an intuitive eye, there might be a
- 6 slight uptick to MPAA's advantage as you go
- 7 across the four periods.
- So if perhaps you put in a trend
  yariable or something to that effect you might
- 10 lead to slightly higher calculated royalty shares
- in the remaining periods. That's cable.
- 12 A similar comment with respect to
- 13 satellite, the same thing was done. I had to do
- 14 something a little different with '02 and '03,
- and I'll talk about that momentarily, but in
- 16 terms of the final results you'll see, again,
- 7 quite stable in my opinion calculated royalty
- 18 shares, and these are I should say MPAA royalty
- 19 shares
- For '02 and '03 in satellite, you
- 21 know, I ran these separate regressions for WGN
- 22 and all other stations, due to the paucity of

- Q Okay. And I'm happy to let you know
- 2 that that document has been admitted into
- 3 evidence as MPA 373, and the orange binder is
- front of you, you can easily refer to it.
- 5 Do you have it in front of you?
- 6 A I do.
- 7 O All right. And what do you address in
- 8 your rebuttal testimony?
  - A Well I was asked to review the
- 10 testimonies of Raul Galaz and Laura Robinson and
- 11 evaluate whether or not IPG was proposing a
- 12 reliable methodology with associated reasonable
- 13 and reliable royalty shares.
  - Q Would you please give a summary of
- 15 your opinion with respect to Mr. Galaz's
- 16 testimony?

17

20

- A I suppose the simple summary is that
- he does not propose an allocation methodology or
- 19 royalty shares.
  - Q And would you please summarize your
- 21 finding with respect to the testimony of Dr.
- Robinson in the opening and supplemental reports

- data for both those two years, and I had a
- relatively complicated Plauson regression, it
- 3 needs a decent amount of data to calculate the
- 4 poignantness of it.
- 5 For both those years the Plauson, to
- 6 use a technical term, did not converge, so I
- 7 needed more data so what I did was to pull '02
- $\vartheta$   $\,$  and '03 together to see, again, if it's
- 9 relatively stable across the four years.
- In my opinion it is. So this gave me,
- or reaffirmed my confidence that it's reasonable
- 12 to use the '00 to '03 data to calculate viewing
- shares throughout the entire period of this year.
- 14 And I'm hoping this answers the
- 15 Judge's question on Monday, and I'm happy to
- 16 answer subsequent questions and even receive
- 17 subsequent homework assignments.
- 18 MR. OLANIRAN: Okay. Now turning to
- 19 your rebuttal testimony, you prepared a written
- 20 rebuttal report in this proceeding did you not?
- 21 THE WITNESS: Yes, I did.
- 22 BY MR. OLANIRAN:

- 1 submitted by Dr. Robinson in this case?
  - A Yes. It's my conclusion that her
  - 3 methodology was flawed conceptually and in its
  - application such that it rendered her reported
  - 5 royalty shares unreliable.
  - 6 Q And why do you say that? Let's start
  - 7 with your criticism as to the conceptual problems
  - with her methodology.
  - 9 A Sure. Perhaps I'll describe the
  - 10 methodology, although I imagine it's been talked
  - 11 about while I've sequestered, so she starts by
  - 12 calculating, or purportedly calculating IPG's
  - volume share and then applies three separate
  - 14 shift factors, as I call them, to obtain three
  - 15 independent royalty share calculations.
  - 16 And each calculation is incomplete and
  - 17 unreliable and more than that actually she starts
  - 18 with a volume share calculation that's biased and
  - 19 inflates IPG's volume share because it relies
  - 20 upon a non-random sample.
  - 21 Q Okay. Now why do you say that the
  - 2 volume share is a problem?

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Well it starts with using this overlap sample, as I call them, and her overlap sample is the overlap of her stratified sample and my stratified sample, and each of ours were designed to be disproportionately, sort of selecting larger, or stations that are re-transmitted to a greater number of distant subscribers. In fact, the largest are slightly with 9 certainty the, you know, medium/large are slightly the high probability and so forth, and 10 so you can think intuitively if you do an overlap 11 12 of those two samples you're going to get all 13 those very large stations, all these other shorthand stations that are distantly retransmitted to a lot of subscribers. 16 You'll get all of the extremely large 17 ones, most of the large ones, and very few of the small ones. 18 19 The reason why it's problematic in 20 this case is if you look at her own calculation

the sort of the percentage of programming of

IPG's takes place in each quarter-hour, it's

raise it by the percentage of viewing.

Maybe if I sort of describe it you'll

see clearly what she did, is she starts with, imagine three columns. This is the way I think,

7 I don't know if the Judges think this way. 8 In the first column, which is like

there's 96 rows for each quarter-hour, will be
Nielsen's United States aggregate viewing. So in
the middle of the night, relatively small

numbers, peak time, relatively large numbers,

13 okay. So that's the Nielsen data.

Q And that's Nielsen data, that's not the same as the Nielsen data that was used, the Nielsen diary data?

17 A No, no. Again, this is just United 18 States annual viewing calculated by Nielsen, not 19 just, you know, just total U.S. viewing.

20 And the next column calculates for 21 each United States what percentage of IPG's

22 volume takes place, and relative to MPAA, you

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distribution, not on absolute levels, the IPG

with respect to her subscriber count shift factor

she finds that IPG programming, in terms of the

programming tends to be on larger stations.

So what that implies is if you are to make this overlap sample more representative,

that it's bringing smaller stations, medium-sized

6 stations, et cetera, according to Robinson's own

calculations, you will get lower, lower on

8 average IPG volume shares.

9 So it was a result of having this
10 overlap sample she has a volume share calculation
11 that's inflated.

that's inflated.O Okay.

21

12 Q Okay. Now with respect to her time-

13 of-day calculation you were critical of that

14 also, were you not?

A I am critical of each royalty share

16 calculation, yes.

15

20

17 Q Okay. Well let's talk about the time-

18 of-day calculation. First describe your

19 understanding of what she did with that and then

following that why you think that is problematic?

21 A I don't know how much detail to go 22 into, so she essentially calculates effectively 1 know, it tends to take place in the middle of the

night.

3 So you have larger percentages like 5,

4 8, 9 percent in the middle of the night, smaller

5 numbers at peak time. The next column, same

6 thing for MPAA, whereas the pattern is reversed

And then if you multiply, see if you

9 can do this in your head, it would be IPG numbers 10 by the Nielsen numbers all the way down then you

11 get a number.

12

You do the same thing for MPAA and

13 it'll be a larger number because MPAA's

14 percentages are when Nielsen viewing is big. So

15 you have an MPAA number, an IPG number, and she

16 takes a ratio.

17 IPG's number is smaller so I think,

18 cable is about 75 percent and satellite was like

19 80 to 85 percent.

Q Okay. Now what is the problem with

21 that calculation?

22 A Well the largest problem is that it's

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incomplete, because it's true the time of day

- 2 isn't economic indicia of value largely because
- 3 it is correlated in the field.
- But there are other things that
- 5 impact, you know, there are other things that
- impact value. As she says in her testimony the
- 7 number of distant describers that have access to
- 8 this sort of program is important.
- 9 But for this metric she doesn't
- 10 control for it. Whenever people actually view
- 11 that specific program is critical and she makes
- 12 no control for the popularity of the individual
- 13 program.
- 14 So it can only go so far, and so my
- 15 big criticism of that factor, which is probably I
- 16 think slightly better than the other two, but it
- 17 still falls short of being a reliable measure.
- 18 Q And do you discuss in some more detail
- 19 your criticism of the fees paid factor and the
- subscriber count factor?
- 21 A In my written direct testimony I do,
- 22 yes

- 2 attributes of the weaknesses, and if they don't
- 3 counter balance at all it gives you independently

THE WITNESS: No. I see no positive

- 4 sort of incomplete and unreliable -- Each is
- 5 inflated due to the volume share and I don't know
- how one could use these three metrics to come up
- 7 with a reasonable royalty rate.
- 8 JUDGE STRICKLER: So each is unhappy
- in its own way?
- 10 THE WITNESS: Each is very unhappy in
- 11 its own way.
- JUDGE STRICKLER: Okay.
- 13 MR. OLANIRAN: And your opinion
- 14 remains the same even though she recommends a
- 15 range and then picks a midpoint from that range
- 16 with respect to IPG's share?
  - THE WITNESS: As I wrote in my written
- 18 rebuttal testimony, I see no economic reason why
- 19 the midpoint of two incomplete and unreliable
  - 0 numbers should be reliable or complete. I can't
- 21 imagine.

17

22 BY MR. OLANIRAN:

## 170

- Q Yes. I mean in your written direct or
- your written rebuttal?
- 3 A I'm sorry, in my written rebuttal.
- 4 Thank you.
- 5 Q Thank you. And your conclusion as to
- 6 the three factors being used to estimate
- 7 royalties, royalty allocation is what?
- 8 A Well, yes, to summarize, what you have
- 9 are those three factors that are incomplete yet
   10 all based upon an inflated and bias volume
- 11 measure, so, yes, I see no reason to rely upon
- 12 them.
- JUDGE STRICKLER: Dr. Gray?
- 14 THE WITNESS: Yes?
- JUDGE STRICKLER: We factor there are
- 16 three different alternative measures in Dr.
- 17 Robinson's approach. Do the deficiencies that
- 18 you've testified to with regard to each of the
- 19 individual of the three methodologies that she
- 20 has, do they in any sense offset each other?
- 21 In other words, is the weakness of one
- 22 a relative strength of the other?

- 1 Q Now you also talked about application
  - flaws. You talked about attribution of titles to
  - 3 IPG for years that IPG did not claim for, could
  - 4 you discuss that?
  - 5 A Yes. What it was is we received in
  - 6 Discovery of the other counsel just a list of
  - 7 IPG's claimed titles associated, together with
  - 8 these years that they were claiming them, and for
  - 9 many of these titles Robinson claimed them for
  - the entire period even though IPG itself did not
  - 11 appear to be claiming those titles.

  - 13 random and non-random sample, which you also
  - 14 talked about in your written rebuttal, correct?
    - A That's correct.
  - 16 O Now you talked in a lot more detail in
  - 17 your written rebuttal about both the conceptual
  - 18 flaws and the application flaws in Dr. Robinson's
  - 19 testimony, do you not?
    - A I do.
  - 21 Q Okay. Are you aware that on March 13,
  - 22 2015, the Judges issued an Order with regard to

15

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1	claims in this proceeding?	1 MR. OLANIRAN: Thank you, Your Honor.
2	A Yes, I was provided a copy of the	2 Dr. Robinson states that your relative value
3	Order.	3 metric is conceptually flawed because it relies
4	Q Right. And that the Judges directed	4 entirely on relative distant viewership, how do
5	the parties to update their claims to reflect	5 you respond to that?
6	their determination in that Opinion, right?	6 THE WITNESS: Well I suppose two-fold.
7	A You mean to update the analysis?	7 One, and I discussed this on Monday, I think a
8	Q Yes.	8 relative viewership is in and of itself, given
9	A Yes.	9 that this is a Phase II proceeding, a good
10	Q And did you do so?	10 measure of relative value.
11	A Yes, I did.	11 I think it does a good job at
12	Q With regard to both cable and	12 measuring the marginal contribution of
13	satellite?	13 programming, but, secondly, I should say in my
14	A Yes.	14 amended testimony I also analyze the impact of
15	Q Okay. And where are the results	15 viewership on a number of subscribers as well as
16	reflected in your written rebuttal testimony?	16 the impact of IPG's programming mix on the number
17	A They would be on page, on the Table on	17 of subscribers.
18	Page 21 and also discussed in the paragraphs on	18 BY MR. OLANIRAN:
19	Page 21 and 22.	19 Q And next Dr. Robinson talks about, she
20	Q Dr. Gray, let's sort of shift gears a	20 states that the relative estimates is based on
21	little bit now to talk about Dr. Robinson's	21 limited data and she refers specifically to your
22	criticism of your written direct testimony. And	22 use of the 2000 through 2003 sweeps data as a
II		
	174	176
1	\$174\$ have you had a chance to review Dr. Robinson's	176  1 basis for all the subsequent calculations. Is
1 2		
11	have you had a chance to review Dr. Robinson's	1 basis for all the subsequent calculations. Is
2	have you had a chance to review Dr. Robinson's written rebuttal testimony?	<pre>basis for all the subsequent calculations. Is this criticism justified?</pre>
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2 3 4 5 6 7 8 9 10 11 12 13 14	have you had a chance to review Dr. Robinson's written rebuttal testimony?  A Yes, I have. Q And where she talks about your methodology?  A I have, yes. Q Okay. And you had a chance to identify the issues that she raises of problems with your methodology, correct? A Yes.  MR. OLANIRAN: Okay. Now let's talk about the specific topics that she talked about. The first issue Dr. Robinson  MR. BOYDSTON: Your Honor, I'll just issue my objection here. Again, he now is	basis for all the subsequent calculations. Is this criticism justified?  A Not in my opinion. And I did, again, talk about this on Monday, but I find the '00 to '03, both cable and satellite, diary data to be very rich and useful with, you know, 1.4 to 1.6 million quarter-hour observations of viewing that enables one to project viewing to non-sweeps periods.  In fact, just let's you project it to the entire period for it on a quarter-hour basis, the entire period for it on a quarter-hour basis, year, for each year.  Q Now Dr. Robinson also talks extensively about what she described as a high
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	have you had a chance to review Dr. Robinson's written rebuttal testimony?  A Yes, I have.  Q And where she talks about your methodology?  A I have, yes.  Q Okay. And you had a chance to identify the issues that she raises of problems with your methodology, correct?  A Yes.  MR. OLANIRAN: Okay. Now let's talk about the specific topics that she talked about. The first issue Dr. Robinson  MR. BOYDSTON: Your Honor, I'll just issue my objection here. Again, he now is getting a chance to rebut Dr. Robinson's rebuttal.  Dr. Robinson doesn't get a chance to rebut what he's saying right here and I don't	this criticism justified?  A Not in my opinion. And I did, again, talk about this on Monday, but I find the '00 to '03, both cable and satellite, diary data to be very rich and useful with, you know, 1.4 to 1.6 million quarter-hour observations of viewing that enables one to project viewing to non-sweeps periods.  In fact, just let's you project it to the entire period for it on a quarter-hour basis, the entire period for it on a quarter-hour basis, A I do. And I know you talked, or you already
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	have you had a chance to review Dr. Robinson's written rebuttal testimony?  A Yes, I have.  Q And where she talks about your methodology?  A I have, yes.  Q Okay. And you had a chance to identify the issues that she raises of problems with your methodology, correct?  A Yes.  MR. OLANIRAN: Okay. Now let's talk about the specific topics that she talked about. The first issue Dr. Robinson  MR. BOYDSTON: Your Honor, I'll just issue my objection here. Again, he now is getting a chance to rebut Dr. Robinson's rebuttal.  Dr. Robinson doesn't get a chance to rebut what he's saying right here and I don't think that's fair and I object on those grounds.	basis for all the subsequent calculations. Is this criticism justified?  A Not in my opinion. And I did, again, talk about this on Monday, but I find the '00 to '03, both cable and satellite, diary data to be very rich and useful with, you know, 1.4 to 1.6 million quarter-hour observations of viewing that enables one to project viewing to non-sweeps periods.  In fact, just let's you project it to the entire period for it on a quarter-hour basis, lace A hours a day, seven days a week, 12 months a year, for each year.  Q Now Dr. Robinson also talks extensively about what she described as a high incidence of zero values in the Nielsen data. Do you recall that?  A I do.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	have you had a chance to review Dr. Robinson's written rebuttal testimony?  A Yes, I have.  Q And where she talks about your methodology?  A I have, yes.  Q Okay. And you had a chance to identify the issues that she raises of problems with your methodology, correct?  A Yes.  MR. OLANIRAN: Okay. Now let's talk about the specific topics that she talked about. The first issue Dr. Robinson  MR. BOYDSTON: Your Honor, I'll just issue my objection here. Again, he now is getting a chance to rebut Dr. Robinson's rebuttal.  Dr. Robinson doesn't get a chance to rebut what he's saying right here and I don't	this criticism justified?  A Not in my opinion. And I did, again, talk about this on Monday, but I find the '00 to '03, both cable and satellite, diary data to be very rich and useful with, you know, 1.4 to 1.6 million quarter-hour observations of viewing that enables one to project viewing to non-sweeps periods.  In fact, just let's you project it to the entire period for it on a quarter-hour basis, the entire period for it on a quarter-hour basis, A I do. And I know you talked, or you already

179 177

14

the zero viewing issue, if you will, somehow

disfavors IPG?

I don't see how it disfavors IPG. You

know, and when we're talking about zero viewing

let's be clear that well it's not actual zero

viewing, but it's recorded no viewing in a

Nielsen survey data.

What's true, and Dr. Robinson points

this out in her rebuttal report. IPG has a lot

more instances of zero recorded viewing than does

11 MPAA and that's why in my methodology actually I

12 estimate viewing for every single quarter-hour,

13 including those where there is Nielsen data, and

14 that's the right thing to do.

15 I know she suggests to use the sort of

"actual." but it's not actual zero viewing, and 16

17 override it. That's a flawed recommendation. I

could go into more detail as to why. 18

Did you by any chance, do you have a 19

20 sense for between the hours of 12 midnight and

6:00 a.m., do you have a sense for the percentage

I looked at volume, I don't recall

I meant volume, I'm sorry.

of the total IPG attributed titles that are

looking at titles in terms of --

THE WITNESS: I see that in the data

and I believe Robinson even has tables confirming

that as well. Dr. Robinson.

MP OLANTRAN: Dr. Robinson criticized

you for using compensable and non-compensable

broadcast data in the satellite, but you used

only compensable broadcast data for your cable

estimates. Do you have a response to that?

THE WITNESS: I used all the data that

was provided to me in both of the circumstances. 10

So with respect to cable that was actually 11

1.2 filtered by the Reznick Group and they provided

13 just MPAA and IPG compensable programming.

So my hands, for lack of a better

expression, were sort of tied and I had to do an 15

analysis just within the program supplier 16

17 category to calculate MPAA and IPG viewing shares

and that's what I did.

For satellite I was given all the data

and so, and there's no reason in my mind or in my

training with the way I train my students,

trained in my students, to throw out data, so I

178

present in that timeframe versus MPAA's?

calculated viewing for every single program.

But then when I calculated relative 2

viewing shares for MPAA and IPG I restricted it

just to MPAA compensable and IPG compensable

programming.

I did though, a long time ago,

actually last summer, repeat satellite analysis

using just program supplier categories, and so I

do the same approach I did within cable, and the

resulting viewerships were slightly higher for

MPAA, that is to IPG's advantage the way I did it

rather than the way Dr. Robinson proposed.

BY MR. OLANIRAN:

Thank you. Dr. Robinson also

criticizes your subscriber regression has many

flaws, do you recall that?

Δ T do.

Yes, and what is the nature of her 0

19 criticism exactly?

She thought that rather than looking 20

21 at sort of the last year's programming mix of,

you know, IPG relative to MPAA, that's impact on

But, yes, IPG is, about 25 percent of their volume occurs between midnight and 6:00 a.m., whereas about 6.6 percent of MPAA's programming takes place between midnight and 6:00 10 JUDGE STRICKLER: That's 6 percent you 11 said? 12 THE WITNESS: Yes. I believe it was 13 6.6, 6.8 percent. It's less than 7 percent and I 14 have a lot of numbers in my head. JUDGE STRICKLER: Were the zero viewing points concentrated within any particular 17 time period? 18 THE WITNESS: Zero viewing occurs, yes, much more commonly in the middle of the 19 night. 20 JUDGE STRICKLER: And you saw that in 21

13

15

16

17

18

the data?

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this year's subscribers that you should not look at that and just look at this year's impact on the simultaneous subscriber count. But the entire structure of the regression does the following, it looks at the questions, so was last year's change in viewing, how does that affect this year's subscribers? What we find is, you know, the more viewing there was last year, the more subscribers 10 there are this year. 11 And then the next thing you want to 12 say is well, what about that program mix last 13 year, if there's like more programming that's IPG last year across all these stations is there more subscribers this year, and that might be an 16 indication, emphasis on might, be an indication 17 that IPG had some sort of special niche 18 programming. 19 But I think it's critical to look at 20 the lags for both into this year's, and that's

your regression analysis is flawed because of your choice of data and choice of variables for including it in your regression analysis.

But just going back, you talked about your sample selection a little bit earlier. I just want to be sure you employed a random

sample?

Yes.

Okay. And a stratified random sample? 0

10 Correct.

Α

11 And did you apply sampling weights by

strata?

12

17

13 Yes. JUDGE STRICKLER: When you say

"sampling weights" wouldn't you agree sampling 15 weights by strata you mean by stratifying that 16

inherently creates the weights?

18 THE WITNESS: Well you calculate the 19 weights based on the probability of being

selected out of that strata, so it's a 20

21 proportionate stratified sampling.

22 And so like the weights for the, the

182

and this year's subscribers and a negative, but

what I do, and with updated titles I find a

positive relationship between last year's viewing

insignificant, relationship between IPG's

programming and the number of subscribers this

21

5 But it's insignificant, it's a huge standard error suggesting that there's a lot of other things going on in subscribers' decision 9 Just to summarize what you just -- I

10 want to make sure I understand.

11

12 You are trying to see whether or not

13 the extent to which IPG's program and MPAA's

14 program are driving subscribership for a

15 voluntary --

16 Correct.

17 And you were able to establish that

18 neither party's program drove the level of

19 subscribership for subsequent years, is that a

fair way to describe that?

21 That's a more succinct way of it, yes.

22 Okav. Dr. Robinson also opined that largest is actually a weight of one, because that

one's picked with certainty, and your probability

of being selected within each strata is the

fraction of the number of stations in that

strata, so a proportionate stratification.

MR. OLANIRAN: Dr. Robinson also talks

about your choice of omission of an indicator

variable for the year 2000. Could you explain

why you did that an in fact if any that has on

10 your regression analysis?

11 THE WITNESS: Right. So when I ran 12 the regressions, both in cable and satellite for

13 the 2000 to 2003 period, from which I projected,

14 I put in what are called categorical variables,

15 or indicator variables, which are zero one

variables for the year, and what that does is 16

just control for, all those equal, just overall 18 levels of distant viewing throughout the period.

19 And then we use these coefficients to

project out in time for the '04 to '09 period 20

21 because it's a Plauson and because there are two

separate regressions it does matter which year is

17

187 185 omitted when you make these projections. (Whereupon, the above-entitled matter 2 Now is Dr. Robinson going to know by went off the record at 2:18 p.m. and resumed at looking at my programs? What I did is I let the 2:40 p.m.) computer sort of select which year to omit. So JUDGE BARNETT: Please be seated. Mr. there was no intentional bias on my part and my Boydston? next step was to check if there was any CROSS-EXAMINATION BY MR. BOYDSTON: unintentional bias. A couple ways of doing that, but the Thank you, Your Honor. Good afternoon, Dr. Gray. I'm Brian Boydston, simplest way is just to remove those year controls. I suspect that's something that Dr. Attorney for IPG, as you'll recall. Robinson did, so if you just run the regression 11 Good afternoon. 12 again but remove the year controls what you find 12 In a number of the questions I'm going 13 is very similar results. 13 to ask you, I'm really just trying to establish 14 In fact, for each cable royalty year 14 whether or not some of these things were 15 and each satellite royalty year the estimate 15 mentioned in your rebuttal, and partly just to 16 removing these year dummy controls is within the 16 make a record as to that fact or non-fact. 95 percent confidence interval that I report in 17 17 Before I do that, I'm going to ask you 18 my written rebuttal testimony. 18 about the new exhibits on your regression 19 So the conclusion is with respect to robustness check. Exhibit 379. And you said this 19 the omitted year, it's no intentional bias, no 20 was created some time after last Monday, when the 20 21 unintentional bias, and inconsequential. 21 issue first arose, correct? 22 And overall how would you describe Dr. 22 Α Correct, Actually, I gave it to 188 186 Robinson's criticisms of your methodology? counsel on Wednesday. Inconsequential, for lack of a better Okay, I assume that the underlying word. data that you used to produce this is in And you now have updated share existence, is available so to speak? allocations for IPG and MPAA, do you not? Dr. Robinson has in fact -- the fact Yes, we talked about them ten minutes that she was able to replicate my results means ago, or pointed to them in the report. all -- she just needed to write a single line in MR. OLANIRAN: Okay. Your Honor, I the program to generate these results. 9 have no further questions for Dr. Gray. Okay, well, there's some record of 10 MR. MACLEAN: Nothing from us, Your 10 what you did to create this, right? 11 Honor. 11 Again, all she had to do was repeat 12 MR. BOYDSTON: Your Honor we do. the analysis, restricting it to each of the 1.2 13 Some of this is brand new, can we have a few 13 single years. 0 14 minutes to, take a break for a few minutes? 14 Okay. Is there something that you can 15 JUDGE BARNETT: If we take our 15 provide us, which describes that? The problem is afternoon recess at this point there will be no that I am not a statistician or a mathematician. 16 16 further break before closing, if there's going to So, I can't -- I don't know how to tell her how 18 18 19 MR. BOYDSTON: I think we can power on 19 I showed her this, and showed her how 20 through as we did earlier. 20 to do it, but I'll tell you what the program code 21 JUDGE BARNETT: Okay. We'll be at 21 22 recess for 15 minutes. 22 For example, for 2000, she'd go in and

189 191 write, "Keep if year" -- K-E-E-P if --1 of the population of stations carried by CSOs or 990e 11 JUDGE BARNETT: Could you exchange Okay, and I see -- it's verbatim. So, this information off the record later? 0 I understand now. I got it. MR. BOYDSTON: That's what I was Α Okav. getting at. 0 Where does it bias -- where does a JUDGE BARNETT: Okay, this doesn't 7 bias come into this in IPG's benefit? need to be in the record. I don't think. Well, I describe how the bias is MR. BOYDSTON: I just want to know if Α evidenced in her sample that she reports. we can get it, and if I could ask that you provide that information to counsel and it be And I understand that. 10 10 Actually, in this rebuttal report, I 11 forwarded to me. Is that fair enough? 11 12 MR. OLANIRAN: That's fine with us. 12 do not describe that it is inflated in IPG's 13 Your Honor. 1.3 advantage. JUDGE BARNETT: Thank you. ASAP. 14 Q Okay, so you don't say that it's MR. OLANIRAN: Will do. inflated in IPG's advantage. That's your BY MR. BOYDSTON: 16 testimony today? 17 Like I said, it's biased. It is to Now, you were talking about Dr. 17 Robinson's methodology and recalculation of IPG's advantage, but either way, it is biased and 18 volume. You said you believe that it was biased therefore unreliable. 19 20 because it was non-random. Now, I did not recall 20 I'm sorry. I'm not sure I caught it 21 seeing any statement to that effect in your 21 all. written rebuttal statement. Is that fair? Is 22 Α I apologize. I'll speak slower. I 190 192 that true, I should say? I looked and I didn't was trying to be cognizant of time. In my see anything saying that you felt that that was written rebuttal report, I describe it as being biased because it was non-random. biased. I don't see in the paragraph here the I describe her results as unreliable fact that it is biased to IPG's advantage, but I because they relied upon a non-random sample. I -- that is a fact. But either way, it's biased presumed that she was going to fix that for the and therefore unreliable. rebuttal testimony. You're saying in addition not just Okay, can you help me out and tell me biased, but you've calculated that the bias works 9 where it is you say that? Where is it that you 9 in the benefit of IPG? 10 raise the non-randomness, if you will, as being 10 A It's implied based upon her subscriber 11 an issue? It may well be in here, I just looked 11 count shift factor. 12 during the break and I did not see it. 12 0 But you haven't actually -- you 13 It's on page 15, section 4, subheading 13 haven't actually calculated that to confirm that? 14 A, which the subheading is titled, "Robinson 14 You would need a representative sample relies on a non-random sample and filtered data." to be able to calculate the magnitude. I only 15 15 16 0 Okay, where do you say it's a bad idea 16 know the direction of the bias. But you haven't calculated it? to use a non-random sample? Is that -- I saw the 17 17 I'll repeat. It's -- I haven't 18 reference that she uses a random sample. I 18 Α didn't see anything saying it was bad. 19 calculated it --19 20 I'll read a couple of sentences for 20 0 Then the answer is no. 21 you. The second and third. "This overlap is 21 A JUDGE BARNETT: He just said he had itself a non-random sample and not representative

195 193 not calculated it. asked and answered. MR. BOYDSTON: Well, he's using -- in THE WITNESS: Not only did I not, I 2 case he was quantifying it in some other way. cannot. I would need a random sample. BY MR. BOYDSTON: THE WITNESS: One way to quantify it Fair enough. All right, now I 5 0 understand. With regard to the issues of the MR. OLANIRAN: I have an objection. JUDGE BARNETT: Yes, it's sustained. overlap and the incidents of large stations being over-represented in the overlap, do you recall BY MR. BOYDSTON: You were just saying now one way to that? 10 Yes. 10 quantify it would be -- well, actually, never 11 And you felt that that resulted in a mind. I'll move on. Now, let's move to time of day, which you address, start to address, at page bias in IPG's favor, correct? You didn't use the 13 word bias, but I think you were saying in your 6 of your rebuttal testimony. 13 14 oral testimony that that inflated IPG's share, In your oral testimony here, you 14 15 correct? 15 discuss the averages of Nielsen data and you 16 That is correct. 16 expressed it in terms of viewing it as three 17 0 Now, again here I think that looks --17 different columns. Do you recall how you 18 I did not see that in your rebuttal testimony. 18 described that orally? 19 At page 6 of your rebuttal testimony, you do 19 Ves. discuss the time of day issues. Admittedly, what 20 20 0 And that -- and you gave an example of you discuss is time of day issues, but I don't why it was that that would not -- why you had a 21 21 22 criticism of why it was not appropriate, right? see anywhere where you explain that there's -- it 196 194 works in the favor of IPG. That wasn't a criticism. That was Are you speaking with respect to time just a description of her methodology. 3 of day or now just the overlap? Okay, but ultimately, you made the I beg your pardon. I switched gears, statement that you felt that as a result the 5 and I think it's because my writing was messy. analysis was -- I caught the word incomplete. G Let's stick with the overlap. Do you discuss the It's incomplete because it only has impact of that in IPG's favor in your rebuttal this time of day shift factor on volume. It does 8 statement? not take into consideration, for example, the 9 Α As I spoke moments ago, I just 9 number of distant subscribers who have access to referred to it as a bias. I did not in my 10 10 this program, and that's an economic issue that Dr. Robinson herself said was important. rebuttal testimony, written testimony, describe 11 11 it as being in IPG's favor. 12 More importantly, it does not take 12 Okay, but you didn't calculate to what 13 0 into consideration whether or not anyone actually 13 viewed any of IPG's programs, which I think is 14 degree? 14 15 I'll repeat. I'm not able. One is very important to note. 15 not able to calculate to what degree because it's 16 16 0 Now, is that in your report at page 6 17 a non-representative sample. Question is what 1.7 or thereafter?

18

19

20

21

22

Q

sample?

19

20

21

22

would be volume share be in a representative

not quantified anywhere as a result?

Okay, you didn't calculate it and it's

MR. OLANIRAN: Objection, Your Honor,

It will be in my report, yes.

where you start your time of day discussion, and

then it continues onto the next page to paragraph

Okay. Page 6 I see. Paragraph 10 is

197

It would be in paragraph 11. Would you like me to read paragraph 11 into the record? JUDGE BARNETT: It's in the record. You don't need to read it. BY MR. BOYDSTON: It doesn't say here that that benefits

IPG though, does it? No. it does not. Nor did I say that

earlier. All I said is it's an incomplete 9 measure, and therefore not in line with the

measure with respect to usable royalty share. 11 Now, you, in your rebuttal report,

addressed titles claims issues and criticized Dr.

Robinson for essentially including titles that

15 she shouldn't have, correct?

16 That is correct.

17 Have you had the chance to review Dr.

18 Robinson's revised numbers that have addressed

19 that? I presume not.

20 A Well, my team actually has started to

21 and has not made all the corrections. For

example, Tomorrow's World, which I reference in

No criticism of Dr. Gray, but of Dr.

Robinson.

0 Thank you.

One of the criticisms is with respect

to the written rebuttal testimony of Marsha

Kessler with respect to the Canadian programming,

but again, as I said on Monday, I have to be told

which title is compensable, and which title goes

to IPG or MPAA. I don't have a dog in this hunt.

10 0 Understood. With regard to relative

distant viewership, you discussed Nielsen data, 11

12 and you said -- I think you said many times that

you believe that the 2000-2003 Nielsen data is

useful and works in making that calculation.

Correct?

20

16

17 And just to confirm, that Nielsen data

is Nielsen data for distant viewing, correct? 18

19 Nielsen cable data, yes.

It's not for local viewing, correct?

And those local ratings I believe are

21 For the distant viewing. There's

22 local ratings I use in the regression.

198

here under page 18, Section C, that is a title

that IPG did not claim that Robinson includes.

It's actually still in the data that we received

vesterday.

5 Similarly, we see many titles. We see

Canadian titles still in the data that have not

been removed. So, there are -- the calculation

that we received yesterday still seems to have

9 flaws in its application.

10 That's because you believe that those

11 Canadian programs are not compensable, right?

That's because I didn't total that.

Also, Tomorrow's World certainly is not one that 13

14 IPG appears to be claiming.

And so, your understanding of the 15 0

Canadian inclusion or non-inclusion is totally 16

17 dependent upon what you've been told by counsel

in terms of criteria, correct? 18

19 Correct, but --

And so, your criticism of Dr. Gray is

based on what you've been told the criteria is by

counsel?

12

200

just the diary, or excuse me, the meter ratings?

Local ratings? I understand them to

be the meter, yes.

Which it's a meter, rather than

someone writing it down by hand, which has

something of an enhanced credibility, I suppose.

8 Would you agree?

9 It actually has pros and cons. One of

the sort of cons, of course, is with respect to

11 ratings data, which is the meter data. That's

12 just a television being tuned in to a program,

13 whereas the diary data someone is actually

14 watching it.

10

15 I can tell you just the other night,

I went to sleep in front of the television and 16

woke up but a couple hours later. 17

18 0 A common problem. Meter data is also

19 less prevalent, I think, than diary data, by a

pretty fair margin. Correct?

21 That's what I've been told by Nielsen,

1

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Now, you said that you looked at the
                                                                               Right. Again, I don't use zero
    IPG programs as to when they fell during the day
                                                               2
                                                                   viewing as an issue. I view it as data.
    part viewing. Day parts, correct? You found
                                                                          0
                                                                                I understand.
    that they were -- there was some concentration of
                                                               4
                                                                               Okav.
                                                                                We do view it as an issue, and that's
    them between 12:00 and 6:00 a.m.?
                 Yes, and this is consistent with Dr.
                                                                   why when you said that, it caught my attention.
                                                               6
    Robinson's time of day shift factor.
                                                                   And if you did an analysis of zero viewing, I was
                Now, when did you -- when did you make
                                                                    curious because I'd asked you on your direct
          0
                                                                   testimony about that. My understanding is that
     that analysis?
10
                 I'm not certain exactly. Someone on
                                                               10
                                                                   you had.
    my team did it. I didn't do it myself, but I
                                                                               Right, that's why I'm confused by your
12
     believe it might've been last week.
                                                               12
                                                                   line of questioning at this moment.
13
                 So, it was not in your -- fair enough
                                                               13
                                                                               I heard something 15 minute ago.
                                                                   Maybe I misheard it. But just to make the record
     to say it was not in your report since the report
     was filed before then?
                                                                   clear, as far as you know, and no one should know
                That is correct.
                                                                   better than you, you have not performed any
17
                Now, you also apparently did a zero
                                                                    specific analysis of zero viewing and its
                                                               17
18
     viewing analysis. You said last summer. Do you
                                                                    implications?
                                                              18
19
     recall that testimony?
                                                              19
                                                                               MR. OLANIRAN: Objection, Your Honor.
20
          Α
                Not sure what you mean by zero viewing
                                                              20
                                                                   Asked and answered.
    analysis.
21
                                                              21
                                                                               MR. BOYDSTON: Okay, I can see how
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with this. I know I heard last summer that you
     performed a certain analysis. You thought it was
     last summer. Do you recall that?
                 I did a lot of analysis last summer.
 5
                Well, it was something you mentioned
 6
     about 15 minutes ago.
 7
                I'm not actually sure what analysis I
    referred to 15 minutes ago, but I did quite a bit
 8
 9
     of sensitivity analyses this past summer, and I
10
    might actually have done this very one this past
11
     summer. But I'll just double check. By this
12
     very one, I should say for the record, I'm
13
     referring to Exhibit 379.
14
          0
                Okay. Did you do an analysis of zero
15
     viewing at some point before these proceedings
     that you shared with Mr. Lindstrom?
17
                 I don't recall doing an analysis of
18
    zero viewing per se. That's why I'm trying to
19
     understand what your question is.
20
                I thought I heard you saying that you
    performed an analysis of zero viewing last
21
```

summer, and if you didn't, fair enough.

Well, you referred to -- let's start

JUDGE BARNETT: I was going to overrule the objection. So, if you'd like to THE WITNESS: I don't know what I said 15 minutes ago, but I --MR. BOYDSTON: I honestly may have 7 misunderstood. 8 THE WITNESS: I never did any analysis 9 with respect to zero viewing. I've done lots of 10 analyses using the data that has observations of 11 zero viewing and I certainly have concluded I 12 don't see any issue with relying upon that data. 13 BY MR BOYDSTON. 14 You've seen data that -- that indicate 15 levels of zero viewing, correct? Yes. In '00 to '03 proceedings, I 16 know Mr. Galaz did some analysis. So, at that 17 18 point in time. I feel like he had replicated his 19 analysis. So, if you define that as an analysis of zero viewing, all it is doing is counting the number of observations where Nielsen has no

it's been asked and answered. So, I'll move on.

22

22

Ω

208

205 So, I certainly had people replicate three or four times he did not. MR. BOYDSTON: Well, I know. Now, I'm 2 Mr. Galaz, and -preferring to what -- he said he replicated Mr. Did they more or less replicate his Galaz's results. I'm just asking him a question results? about what he observed in that. I don't recall, but I'm sure they found some results. I just don't recall at this moment. This was a couple years ago. But again, we didn't make any conclusions that the data was 8 unreliable. 9 10 0 And in doing that analysis, did you 10 11 recall generally that you found instances of zero 11 12 viewing depending upon the channel ranging 12

MR. OLANIRAN: He said he replicated Mr. Galaz's results from another proceeding. MR. BOYDSTON: True, but he's saving -MR. OLANIRAN: Or someone on his team did that. Now, we're getting into the specifics of the results of that analysis, which is --JUDGE BARNETT: Your relevance objection is sustained. MR. OLANIRAN: Thank you. 15 BY MR. BOYDSTON: You have said that you don't think 17 zero viewing is a problem, correct?

17 And do you also recall looking across 18 the board and averaging zero viewing incidents 19 across stations, in addition to just looking at individual stations? Because Mr. Galaz did that; 20

There was variability.

anywhere from only like a few percentage points

to 100 percentage points at times depending upon

21 I'm thinking you probably replicated that as

22 well.

the stations?

13

16

1

if it's at 80 percent averaged across all 21 stations? 22

In large part because we make hundreds

206

18

19

20

I or my team probably replicated his

results.

And do you recall if you did that averaging zero viewing across stations, you got

numbers which were certainly above 50 percent.

Sometimes as high as 80 percent?

MR. OLANIRAN: Objection, Your Honor.

Now, we are really getting outside the scope of

Dr. Gray's testimony. He's asking Dr. Gray to

10 testify to an analysis he may have -- may not

have done maybe two years ago. It's not in 11

12 evidence in this proceeding. May have been

13 related to evidence from a last proceeding.

14 JUDGE BARNETT: I don't need a

15 narrative, Mr. Olaniran. I've got the objection.

16 Do you want to respond?

17 MR. BOYDSTON: He raised -- he raised

18 zero viewing in his testimony, and he also raised

relative viewership, and that's --19

20 JUDGE BARNETT: But you've asked, I

21 think three times, whether he's done an analysis

of zero viewing and I believe he has answered

of thousands of observations of positive viewing,

I've said that repeatedly, yes.

And so, you don't think it's a problem

and it's just indicative that this viewing is not

relatively common.

Would your opinion be the same if zero

viewing was an incidence of 99 percent across all

stations on average?

It depends upon the number of

8 observations I have of positive viewing.

9 At some point, if it got high enough,

10 would you say, "Well, I guess now it is an

11 important issue?" Like 99 percent, for instance?

I don't know where the break would be, 12

but at some point I would start thinking about 13

the specification, what kind of econometric model 14

15 to apply toward the -- it's a level now where

certainly you can't do a regular linear 16

17 regression. That's why I do the Poisson.

18 So, do you -- I'm not going to ask you

19 for a specific break point because you said you

don't know what it is. But is there -- do you

21 believe that there would be some point at which

if you saw zero viewing above a certain point,

209 211 and I'm asking you to define that point, or would the factor to be a problem -- not a problem ever? I'll repeat. If the data was such there be some point where you would say, "Okay, 2 that most -- the vast majority of observations now the zero viewing is so high I do think it is were zeros, pretty soon I think what would make an issue?" Or, is it just a factor that wouldn't more sense is to do some analysis almost by hand. matter no matter how high it got? So, again, every time I get -- I 0 Every time I work with data, which is receive lots of data, and there's a lot of data quite often, I look at it carefully, analyze it and try to consider what kind of a model to apply in this case. I roll up my sleeves with the team. Pull out the proverbial chalkboard and to it, what kind of statistical method to apply, 10 and so whether or not there is a lot of missing 10 whitehoard, and decide what's the best approach 11 information, whether or not there's a lot of any to come up with reasonable and reliable results. 11 12 particular values where one needs to do a 12 That's what I've done in this matter. 13 13 I think to talk about a matter where the data sophisticated analysis. Sitting here today, I can't think of 14 might be a lot worse than here, would I do 15 a particular break point where I would change my something? There could be a case where the data 16 methodology, but I can tell you this: Given an is worse, where I'd have to change my 17 instance of zero viewing in this matter, I'm methodology. 18 perfectly comfortable with the application that I 18 Once again, you are opining as to the 19 performed. instance of zero viewing here not being a 20 problem, despite the fact that you have not done You're not rejecting the notion that 20

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become a problem I assume, correct? Because at some point, it would indict the lack of data 17 20 212

Yes? Yes or no. and then you give an

explanation. You have a -- you're opining that

any zero viewing specific analysis, correct?

Well, I --

it's not a problem here. True?

That is correct.

And you haven't done any zero viewing

analysis, true?

A

7 MR. OLANIRAN: Objection, Your Honor.

8 Vaque.

9 MR. BOYDSTON: I'm repeating what

10 you've been saying.

11 THE WITNESS: Again, I --

JUDGE BARNETT: Overruled. 12

BY MR. BOYDSTON: 13

14 True or false, you haven't done a zero viewing analysis? I mean we've gone over this. 15

You said no, correct? 16

> I'm trying to answer your question. Α

0 Have you done a zero viewing analysis 18

19 or not? I think the answer was yes -- I mean no.

JUDGE BARNETT: Give him the chance to

21 answer the question.

22 BY MR. BOYDSTON:

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points so --
                 MR. OLANIRAN: Objection to
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     speculation, Your Honor.
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                 MR. BOYDSTON: I'm asking for his
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     opinion. It is speculation. That's right. It's
    his opinion I'm asking for.
 8
                 JUDGE BARNETT: Overruled.
 9
                 THE WITNESS: Well, at the limit, as
10
     we statisticians always like to go there, at the
11
    limit if there are zero viewing throughout, I
12
13
     would hope these proceedings would not take place
14
     going forward.
15
                 BY MR. BOYDSTON:
16
                 What if I were just a tick? What if
17
    it was just a tick below zero? I mean at some
18
    point, you would have -- of course if it was 100
    percent zero viewing, of course it would be
20
     absurd. How about at some point -- is there some
21
    point less than 100 percent that you would still
22
     say it's a problem, or would you just consider
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at some level, perhaps not here that we see, but

at some level, zero viewing might theoretically

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Have you done a zero viewing analysis? Let me try to answer. You always -sometimes you can't give yes or no without Well, at the beginning of the proceeding, we tell people to say yes or no first, and then give their explanation. No. And my explanation is the following: Again, as I described at length on Monday and even greater length in my direct testimonies, just the nature of the data, the 11 12 fact that you were able to run the Poisson 13 regression and the characteristics that were in the output files that Dr. Robinson had would lead 15 me to believe that it's a reliable methodology. MR. BOYDSTON: Your Honor, I move to 16 17 strike his response after no. JUDGE BARNETT: Sustained. BY MR. BOYDSTON: Let me ask you to take a look at your rebuttal, written rebuttal statement, page 17. 21 Direct your attention to Table 3.

215 where each of those titles in Table 3 for satellite there -- there's many more. That's why I cut it off. It's in all of their titles in italics. And was it your understanding, or did you have an understanding that this was a coding error related to a temporal restriction to i.e. years of claims. I would define it as a mistake. A Α coding mistake, ves. 10 11 Now, did you run a full analysis of the coding mistake to come up with all these 12 titles? I assume that's how you -- you get some 13 sort of process to identify all these titles. 14 Someone on my team did this one and 15 prepared this table, yes. 16 Okay, when they did that, did they 17 restrict it only to look for IPG titles that were

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Let me ask you -- I think I understand what this table says, but why don't you tell me in your own words what this depicts? 5 My understanding is that these are programs that IPG claimed with regards to -- in the documents that we received in discovery, and these are cases -- I give an example in one of the paragraphs, The Three Stooges. So, The Three Stooges is one in the spreadsheet that we received at footnote 20. In that spreadsheet it said that IPG was claiming 12 Three Stooges for the years 2007 through 2009. Yet in her analysis, Dr. Robinson used -- treated 15 Three Stooges as an IPG claimed program from the 16 entire period 2004 through 2009. 17 So, what that table does is counts the 18 number of transmissions of Three Stooges from 2004 through 2006, which is the time period where 19 IPG did not observe a claim for that title 20 21 according to that document. Yet, Dr. Robinson

treated it as an IPG title. And that's the case

Yes.

not this error affected any MPAA titles?

It was based upon Robinson's

So, did you check to see whether or

subject to this airing?

documents. So, therefore, yes.

Α As far as I'm aware, we did not make that error. 0 Did you check for that error? Check for that error? With respect to Dr. Robinson do you mean? Go ahead. Ask the question. You looked at Dr. Robinson's

underlying data and her report and you discovered that due to a coding error, Dr. Robinson had accorded IPG credit for these programs. Did you also look to see whether or not Dr. Robinson's error also resulted in the MPAA being credited for programs outside of its temporal restrictions? I understand your question. The answer is there's no need to do that based upon the way she performed her analysis because she took the IPG data, excuse me, and appended the MPAA data to it that had the sort of appropriate 20 21 titles and years.

So, there's no mistakes with respect

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219 217 Dr. Gray, I apologize. It's possible to MPAA as far as I'm aware. I misunderstood either the question or the answer Did you look further into it to see if on this, but were -- I believe you were asked perhaps there were some mistakes that included about your use of CBC subscriber data in your titles for MPAA? My answer is the same. It's not methodology. Α possible. It's not possible based on my I may have been. And did you answer that you used CBC understanding of her approach. subscriber data or fee data, fee generation data, How did her coding mistakes come to 0 in establishing your stratified random sample? your attention? Someone on my team sort of brought it I hope I didn't misspeak. I used the 10 А subscriber count to choose my samples. to me. So, this is what she does --Someone on your team meaning --Okay. So, you used CDC subscriber data that way. Is that correct? 13 Worked directly with me and I 13 supervised. 15 How did they come across it if you Did you also use it in -- use CDC 15 16 know? 16 subscriber data in performing your regression 17 Actually, the specific person who 17 calculations? 18 found it has been working with me for about 18 18 I used the CDC data in terms of -years now. He works with data like a hot knife 19 because there's information with respect to the through butter. So, when he brought this to my number of subscribers of retransmitted stations. 20 20 21 attention, I said, "Yes, you found a mistake." 21 So, that will be in my regression as well. I presume he -- I presume maybe he was 22 And so, I'm just looking as an 22 0 220 218 trying to replicate Dr. Robinson and have example, at MPAA Exhibit 6 and 7. I'm looking at different numbers, and started looking at her -- this is only an example, but I'm looking at the top of table E-3-A. It's on page 56. code, trying to figure out why it was that the titles and years were different. That's my And there at the top it shows you did presumption. a regression based on market size, correct? But Dr. Robinson's approach is to simply append the MPAA data to the IPG data, and take -- and so, this time constraint would not Is that where you used the CDC data take place and not interview he MPAA data. 9 when you calculate the log of market size? 1.0 Are you saying it's not possible that 10 Correct, and market size again is the 11 this coding error may have favored the MPAA? And 11 number of distinct subscribers on this station, 12 by coding the MPAA with more transmissions at the program at issue at the quarter hour. 12 outside of the proper time frame? 13 13 0 And Poisson regression is a logged That is correct. My understanding is 14 Ά 14 linear regression, correct? it's not possible. That is correct. 15 15 MR. BOYDSTON: Okay, that's 16 So, in your regression, you used --16 interesting. I have nothing further. 17 your top factors there are log of market size, 17 MR. MACLEAN: Your Honor, may I have which is the number of distant subscribers, 18 19 a very brief cross based on one clarification? correct? 19 20 JUDGE BARNETT: You may. Α Correct. 21 CROSS-EXAMINATION And log of local ratings which are 22 BY MR. MACLEAN: local ratings, correct?

221 223 Correct. what she describes as core quoting from testimony of Mr. Lindstrom of Nielsen. "Huge relative And with respect to calculating these errors in Nielsen data." And that is a criticism coefficients, you found a positive and of your analysis to the extent it relies on the statistically significant correlation between both number of distant subscribers and distant Nielsen data. Because of what she says, viewing, and also local ratings and distant according to Mr. Lindstrom's testimony, it has huge, relative errors. viewing for every year. Is that right? That is correct, ves. Can you respond to that? Please, feel free to read the whole footnote or any other part MR. MACLEAN: No further questions. MR. OLANIRAN: I have no re-direct, of that page before you answer. THE WITNESS: There's a little bit of 11 Your Honor. RECROSS-EXAMINATION information that Nielsen possesses with respect 12 12 13 13 to the relative errors and data at issue. BY MR. BOYDSTON: 14 Therefore, it was impossible to calculate the Very quickly. I can do it from here. 14 On the subject you were just discussing, the CDC confidence interval, and I had to sort of employ 15 guide that you used for that, was it satellite a relatively new, developed in 1970's but now 16 16 17 data, or cable data or both? 17 widely accepted technical bootstrap, in order to 18 18 For this particular table, this was computationally calculate the confidence 19 satellite, but I also used it in the cable as 19 internal. 20 well. 20 JUDGE STRICKLAND: You have that in 21 So you used satellite data and cable 21 the footnote in your statement? THE WITNESS: I do. 22 data? 22 222 224 JUDGE STRICKLAND: Okay. Correct, yes. MR. BOYDSTON: Okay, thank you. THE WITNESS: And I'm happy to talk JUDGE STRICKLAND: One question for about that at length because I think it's a -you, do you have Dr. Robinson's rebuttal, JUDGE STRICKLAND: We'd be happier 5 rebuttal to the MPAA in front of you? that you don't. 6 MR. BOYDSTON: Your Honor, may I THE WITNESS: But in this context, the approach and see if it -only way to estimate confidence intervals, given 8 JUDGE BARNETT: Thank you, Mr. the unknown on a case-by-case method is to 9 Boydston. 9 simulate errors using the bootstrap methodology, 10 JUDGE STRICKLAND: Rebuttal for the 10 and that's what I did. JUDGE STRICKLAND: I don't want to go 1.1 written direct statement of the MPAA. 1.1 THE WITNESS: Okay. I believe this is down this rabbit hole, but I'll take a couple 12 12 it, which is the -- yes, rebuttal to the -little steps. Is there a lack of -- of 13 13 MR. BOYDSTON: That is it. Thank you. 14 14 confidence greater when you use the bootstrap 15 JUDGE STRICKLAND: Can you turn, sir, 15 methodology than if you actually have the to page 8, and take a look. I want to ask you confidence intervals from the actual data? Is 16 16 17 about footnote 10 in Dr. Robinson's rebuttal 17 that sort of a second best? 18 statement. Are you there? 18 THE WITNESS: The short answer is it's THE WITNESS: I am. 19 19 actually ambiguous because there's a large JUDGE STRICKLAND: Okay, I'll ask you literature on it now, it's an amazingly accurate 21 just a general question then give you a chance to 21 tool, and a powerful tool. But it is read it. My question is she makes mention of computationally heavy. It's takes my program,

227 225 intervals, or it's the best alternative? which takes approximately a week to run in. THE WITNESS: I would say it's the 2 2 My server has dozens of processor and best alternative. It's -- it's really the only 3 lots of memory. But it does all these alternative that I could do straight-faced in simulations and creates errors, and does what are front of my peers. called Monte Carol experiments to see how accurate the bootstrap methodology is. It's now JUDGE STRICKLAND: Have you ever embraced by the statistical sort of community. relied upon that bootstrap methodology to JUDGE STRICKLAND: So, when you determine confidence intervals, testifying as an 9 expert witness? mention the bootstrap methodology in one of your statements admitted as evidence in this 10 THE WITNESS: Not testifying as an proceeding, was that in your direct testimony? 11 expert witness, no. But I've done it in the 12 THE WITNESS: That was in my rebuttal 12 academic community. 13 13 JUDGE STRICKLAND: Thank you. testimony. 14 JUDGE STRICKLAND: Your rebuttal JUDGE BARNETT: Any follow on 14 15 testimony? questions from counsel based on this? 15 16 THE WITNESS: Correct. 16 MR. MACLEAN: No, Your Honor. 17 JUDGE STRICKLAND: And Dr. Robinson 17 MR. OLANIRAN: No. Your Honor. 18 also mentioned, and I don't think it's mentioned 18 MR. BOYDSTON: No, Your Honor. 19 here in the footnote that I referenced; she 19 JUDGE BARNETT: Thank you, Dr. Gray. 20 mentioned the existence of large standard errors THE WITNESS: Thank you. 20 21 as well that are the unknown -- actually, I must 21 (The witness steps down.) 22 correct myself. "Unknown standard errors with 22 JUDGE BARNETT: It appears we have an 226 228 regard to the Nielsen data." Do you have a hour and ten minutes, and three parties. Twenty-2 response to that? three apiece. Twenty-three and one-third apiece. 3 THE WITNESS: My understanding is Who is on first? 4 that's actually -- isn't that -- standard errors MR. BOYDSTON: I presume we go in the 5 and relative errors are cut from the same cloth. same order. 6 JUDGE STRICKLAND: Are you saying that MR. MACLEAN: My friend at MPAA has 7 they are synonymous? 7 offered to yield his spot to me. THE WITNESS: Not synonymous, but I 8 MR. OLANIRAN: What are friends for? mean standard errors are measures of error with MR. MACLEAN: Actually, I don't 9 9 respect to the estimate. Relative errors are believe I'll use 23 minutes. I have a little bit 10 10 11 sort of the magnitude of it. more to say about IPG's rehashed methodology in 11 So, I got a standard error 0.1. It's 12 this proceeding. 12 13 put in context with the relative error. 13 Every factor that they rely on here is JUDGE STRICKLAND: So, you're saving a factor that was already rejected in the 1999 14 14 15 that the bootstrap methodology addresses both of 15 case. In Mr. Boydston's opening statement, he 16 those concerns, given that they're cut from the 16 said that IPG had brought a new idea here, and 17 same cloth? 17 that is that copyright royalties in Canada and 18 18 elsewhere use the same factors. THE WITNESS: Indeed it's an attempt 19 to address them. 19 First of all, it appears not to be JUDGE STRICKLAND: So, you're saying true, but based on the testimony and the plain 21 that bootstrap methodology substitutes perfectly language of the exhibits that have been offered for a direct determination of confidence in support of it; but true or not, I don't -- I

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- don't really see how it is relevant to these
- proceedings.

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- No witness who testified, testified to
- enough knowledge of either Canadian or other
- foreign legal systems to know how the copyright
- royalty systems work, or what standards are
- applied in the law. For example, whether a fair
- market standard is the standard applied.
- g There simply isn't sufficient
- 10 foundation, and zero relevance to this, which is
- 11 really the only new idea that IPG has brought to
- 12 this proceeding that wasn't previously hashed out
- 13 in the 1999 proceedings.
- Moreover, they brought issue errors
- 15 with them to this proceeding. Some of these
- errors they've attempted to correct, and we
- 17 haven't yet determined how successful they were
- 18 through their submissions of revised exhibits.
- 19 But certainly, Dr. Robinson has been unable to
- 20 explain, for example, why it is that she does not
- 21 calculate her valuations based on volumes times
- all -- or at least all of her own correlated

- significant reasons why Dr. Robinson's rebuttal
- to Dr. Erdem's methodology, particularly using
- hypotheticals, is simply -- is simply false.
- What we do is we take local ratings.
- and we multiply them. That is to say scale them
- by the number of distant subscribers receiving
- those programs. For our local ratings, we use
- Nielsen ratings from an off the shelf Nielsen
- reports, reported on devotional programming that
- includes ratings for devotional programs, 10
- 11 according to the standard set forth in the report
- for all Nielsen DMAs. We do not rely on a 12
- 13 sample.
- You saw that play out with respect to 14
- 15 IPG's own methodology, which results in zero for,
- 16 for example, year 2000 satellite, because their
- 17 methodology didn't have sufficient data to
- capture their own programs in that particular
- 20 Because they're relying on a sample,
- 21 not a census. It's simple. A sample that was
- 22 not randomly selected, a sample of only a small

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valuation factors.

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- 2 With respect to the SDC and cable
- anyway, or the devotional category, that would've
- reduced her -- her valuation. You can see for
- yourself just by looking across the row. See
- below the bottom of her range in every single year. Would've been different in satellite,
- where her results are more spiky, I will say.
- 9 But the result in cable? She has no explanation
- 10 for these kinds of errors.
- 11 The SDC have come with a methodology 12
- that is tested and fair. To summarize briefly,
- and to clarify a mischaracterization that was 14 made today that Dr. Erdem explains, Dr. Erdem gas
- rejected a time-based methodology. We don't use 15
- 16 quarter hours at all for one purpose: We reject
- 17 the idea that a daily program is more valuable
- 18 than a once-a-week program.
- 19 We reject that idea that a one-hour
- 20 program is more valuable than a half hour
- 21 program. That does not appear in Dr. Erdem's
- 22 methodology, which by the way is one of the

- percentage of all the stations out there.
- The report on devotional programming
- that you just mentioned a moment ago: We relied
- upon, if I can calculate in my head for just a
- second, approximately 30 different reports on
- devotional programming. One from 1999; one from
- 2000; one from 2001; one from 2002; one from
- 2003, which was all the available reports on
- 9 devotional programming that we were able to get
- 10 for that period of time.
- 11 For 2004 to 2009, we had all four
- 13 those years. So, that I believe comes to 29.
- 14 I'd have to -- I'm sorry, Your Honor. I have to

reports on devotional programming from each of

- do the math in my head, but it would be whatever 15
- 16 four times 2004 through 2009 is, plus one times
- 17 1999 through 2003.
- 18 In 1999, by contrast, the judges
- 19 themselves chose to rely on a single report on
- 20 devotional programming for 1999 in making their
- 21 allocations, and did not scale based on -- based
- 22 on subscribership.

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To that extent, the SDC methodology
     presented in this case is better on both counts.
     One, we have more data. Two, we scale based on
     subscribership. Our criticism has been raised
     relating to the way Dr. Erdem determined that
     there is a positive correlation with respect to
     local viewing and distant viewing.
                 Dr. Grav himself has found for every
     year, at least for every year he had distant
10
     viewing data, that there is a positive and
11
     significant correlation between local viewing and
12
     distant viewing based on ratings measurements and
13
     between local viewing and -- I'm sorry, and based
     on subscribership.
                 JUDGE STRICKLAND: Am I right in
     understanding the ration that he uses? So, he
17
     plugs in all of these other year's figures that
     he has: he creates the ratio based on the
19
     February 1999 data. Am I missing that?
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                 MR. MACLEAN: No, Your Honor. Not at
21
     all. Not at all. Because we don't apply a
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regression coefficient. The reason we don't

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year. Dr. Erdem didn't apply regression at all.
     He calculated correlation coefficient only for
     the purposes of satisfying himself that -- that
     local ratings do translate into distant -- into
     distant viewing.
                 TUDGE STRICKLAND: What were the
     inputs for him to calculate that correlation
     coefficient?
                 MR. MACLEAN: He described in his
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     testimonv --
                 JUDGE STRICKLAND: You summarized
11
12
     this?
13
           MR. MACLEAN: Yes, Your Honor. To calculate
14
     that correlation coefficient, which bear in mind
     he does not use in reaching his results but only
16
     to satisfy himself of the correlation, he uses
     the local ratings data from 1999 report on
     devotional programming, and the -- and a distant
     ratings measure based upon calculated from the
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distant HHVH data that we have.

report on devotional programming in the

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apply a regression coefficient is because we only have -- we don't have a -- we don't have a log of regression. We only have the data for 1999 for a linear regression. We also don't have the data for a 6 multiple regression. Therefore, because a calculation of a linear regression, a linear single regression will result only in a single 9 coefficient, which would then be used to scale 10 every single value. 11 When you calculate the percentages, it doesn't matter what that coefficient is, as long 12 as it is positive. You know it is positive 13 14 because the correlation is positive. Nobody 15 seems to be arguing that there is a negative correlation between local viewing and distant 16 17 viewing. 18 As long as that coefficient is positive, it is irrelevant what the value is 19 20 because it will cancel out the numerator with a 21 denominator when you calculate a percentage. So,

there was no need to apply regression for every

236 numerator: that's February 1999, correct? MR. MACLEAN: Correct, correct. But remember, the only reason we used that was just -- was simply to satisfy Dr. Erdem that there is a correlation. What precisely the correlation is it doesn't factor into his calculation. JUDGE STRICKLAND: His correlation was 0.9, correct? 9 MR. MACLEAN: Yes, Your Honor. 10 JUDGE STRICKLAND: So, you're saying 11 you understand his testimony as reported to mean that if that correlation was 0.1 positive, that would've been enough to continue to make the correlation?

JUDGE STRICKLAND: And that local 1999

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237 testimony as to how he determined that the threshold of significance was met? MR. MACLEAN: If I'm not mistaken, Your Honor, in written direct testimony, he -- he -- I'm not sure whether it was Pearson's chisquare significance test. It might've been. I would have to look at his written direct testimony to see if he -- if he referenced how he 9 determined significance. But 0.9 correlation only goes from 0 to 1, or actually -0.1 to 1. A 11 positive correlation can only go between 0 and 1. A 0.9 correlation coefficient means that 90 percent of the variance in one variable can be related to variance in the other variable. JUDGE STRICKLAND: And that strong

- 239 Gray's analysis out of it for a second. It's -are you saying it's an evidentiary presumption? MR. MACLEAN: Your Honor, I'm saying it's a statistical and economic presumption that Dr. Erdem applied. JUDGE STRICKLAND: Is it an evidentiary presumption? MR. MACLEAN: I think that's a -- I'm not aware of a rule of evidence that would go one 9 10 way or the other on that question. Your Honor. We submitted this testimony through expert 11 12 witness testimony. It's a matter of your 13 weighing the expertise of the witness. JUDGE STRICKLAND: To conclude that the presumption should follow from year to year to year, would not necessarily be a statistical
- 14 correlation occurred in the data related to 1999? MR. MACLEAN: Correct. Dr. Gray issue. It would also be a matter of factual similarly found a positive and statistically evidence separate and apart from statistical significant correlation in 2000, 2001, 2002, evidence as to whether there were changes in 2003, which is the basis for his own regression. viewing habits, changes in shows, a whole host of So, I don't think there's any party in 21 other things that may or may not impact it, this proceeding who can argue, at least not based 22 correct?

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on analysis or data, that there is not a positive and statistically significant correlation between local viewing and distant viewing. Nor is there any party in this proceeding who can argue that there is not a statistically significant correlation between -between distant subscribership and distant 8 viewing. JUDGE STRICKLAND: And you've come to 10 that conclusion with regard to the SDC's data 11 because the correlation coefficient was high 12 enough in the 1999 data; you then use that as a 13 threshold to say, "Now we can perform that type 14 of exercise local -- to distant viewing for all 15 subsequent years." And you can do that simply 16 because you have the correlation in 1999. So, 17 that creates a presumption that correlation should continue year after year? 19 MR. MACLEAN: I think it's a fair way 20 of saying, Your Honor, that it's a presumption 21 that is confirmed by Dr. Gray's analysis.

JUDGE STRICKLAND: Let's leave Dr.

MR. MACLEAN: Well, again, I think 1 that would depend on what -- on what you think is important in terms of local viewing that would -that would impact on distant viewing. JUDGE STRICKLAND: Well, I don't know whether it's important or not important other than what I hear in the evidence, which is why I asked the question about evidentiary presumption. 9 Is it your position that you have the burden of 10 showing that that correlation continued from year 11 to year to year, and you satisfied -- and you 12 satisfied it? Or, we should give you a 13 presumption that it exists, and that the burden 14 is on IPG to either rebut the presumption or rebut your evidence? 15 MR. MACLEAN: I think my answer to 16 17 that would be I don't think that either we or IPG 18 has a burden to show any continuation or noncontinuation of a correlation between distant and 19 20 local viewing. It's a matter of fact finding for 21 the judges. But as a legal matter, as a rule of evidence kind of matter, there's no -- there's no

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legal burden to show -- to show a correlation or

JUDGE STRICKLAND: So, no party has

the burden, but the judges have, if you will,

generically burden coming up with the decision.

What if neither party has satisfied their burden?

MR. MACLEAN: Your Honor, you're

asking the same question as in 1999.

JUDGE STRICKLAND: I do recall.

MR. MACLEAN: And my answer then was 10 and remains the -- the judges have the statutory 11

obligation to find a non-arbitrary and -- to find 12

13 a non-arbitrary allocation in this case.

As I said, we can't keep running. You 14

must award. You must make an award. You must do 15

16 it on a non-arbitrary basis. If you're not

17 satisfied with the evidence that has been

presented in these proceedings, you can seek more

evidence. You can request witnesses. You can

20 request the parties to present more evidence.

JUDGE STRICKLAND: We can bring you 21

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point with the disqualification of Envoy than IPG

programs.

I said disqualification. I mean

disqualification in the devotional category of

At this point in the proceedings,

there are only three IPG programs that do not

appear in our Nielsen data. Billy Graham, which

IPG claimed for 2001 through 2003, and which is

satellite only, and which SDC claims from 2004 10

through 2008 in cable and satellite. 11

So, the lack of Billy Graham in 12

Nielsen data, to the extent it has any affect at 13

all, and bear in mind these are occasional 14

specials and not regular daily or weekly 15

16 programs, which is why it's not in the Nielsen

data. The lack of Billy Graham can only hurt the

SDC compared to IPG.

17

Salem Baptist Church is another IPG

program, a program that is by log viewing is

21 approximately one-tenth of one percent of IPG's

tribute sample. We don't have a tribute sample,

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MR. MACLEAN: Certainly.

JUDGE BARNETT: I think someone very

wise once said we have a job to do. I think I

heard that somewhere.

MR. MACLEAN: Without any -- everybody

in this room does, and I hope that we have done

everything we can to assist you in doing a good

The methodology shows that this is a

fair one. It is one essentially that the judges

themselves have adopted in the 1999 cases, with

12 the changes that I just described, which are

13 changes for the better.

14 As with any methodology, there are

15 some fair criticisms. There will be no perfect

16 methodology presented in this case. It will

17 never happen.

18 IPG has pointed out that we are --

19 that our Nielsen data does not contain all

programs: that is a better to the devotional 20

21 category. That is true. We are missing far more

22 SDC programs. Far more SDC programs at this but IPG does. One-tenth of one percent of the

volume of claimed devotional programming is Salem

Baptist Church.

In satellite, 0.02 percent of

devotional programming by volume in IPG's own

tribute sample is Salem Baptist Church. That is

2 out of 10.000.

The third program of primary focus is

9 a program that nobody in this proceeding has

10 testified as having any value whatsoever, and is

a program that wasn't even claimed in the

devotional proceedings until these proceedings.

In the past it was by program suppliers only. 13

14 There is simply no testimony one way whatsoever

15 that would imply that either -- that primary

16 focus or for that matter Salem Baptist Church, or for that matter Billy Graham has any value, and

18 without evidence of value it is worthless.

No cable system operator or satellite 19

system operator, hypothetical or otherwise, is 20

21 going to pay one red cent for a program if they

don't have reason to believe it has value. And

that's the state of the evidence right now.

2 Your Honor, I -- obviously I could go

on, but I think our own written testimony that we

submitted is going to be fully adequate for you

5 to conclude that the SDC has presented a fair and

6 reliable methodology that would allow you to

o leitable mechodology that would allow you

7 reach a non-arbitrary result.

8 Of course, if you found otherwise,

9 we'll be happy to present as much more as you

10 would like.

So, in conclusion, we would ask for

the allocations as set forth in Mr. John Sanders'

13 rebuttal, valuation expert John Sanders, SDC 641,

with the one correction that we've made giving

15 IPG an extra 0.05 percent in 2004 satellite only

16 to correct an error in the CDC satellite data

17 that we received and corrected. Thank you.

JUDGE BARNETT: Thank you, Mr.

19 MacLean.

MR. OLANIRAN: Good afternoon, Your

21 Honor. I'm going to try to beat Mr. MacLean's

22 record. It's our fifth day of the hearing. It's

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that the course that you've set on, not only to

at the backlog of undistributed royalties is the

4 correct path. We certainly appreciate your

5 efforts in that direction.

As enormous as the record is, and as

7 complex some of the issues may seem, it really is

8 simple, at least in our view in terms of the

g questions that need to be asked and answered. I

10 think Ms. Plovnick directed Your Honors to the

11 questions that needed to be asked and answered in

this proceeding.

13 She talked about what evidence

14 supports the relative market value standard, the

15 standard which no one seems to debate in this

16 proceeding. She talked about reliability of the

evidence.

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12

18 The third question was one of

19 credibility of the witnesses supporting that

20 evidence. We think we've answered all three

21 questions.

With regard to the first question, we

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been a little bit over a month or something.

2 Just to put this into context, this

3 is, as far as I can tell, the single largest

4 royalty distribution proceeding ever litigated.

In case you have a compulsory license in terms of

6 the -- so it does have great historical

7 significance.

9

8 It makes an enormous record of

substantive and procedural issues. It has

10 consumed a great amount of time and effort for

11 all involved and I don't know what expectations

12 Your Honors had in terms of the demands of

13 consolidation we put on -- which create for

14 consolidating cable and satellite.

15 JUDGE BARNETT: We thought it would be

16 -- we thought you would all be equal to the

17 challenge.

18 MR. OLANIRAN: One thing we ask Your

19 Honors is that at a minimum it has been extremely

20 challenging to undertake an administration of

21 distribution of royalties for 60 years. And as

22 representatives of copyright owners, we believe

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present -- we presented evidence of viewing to

 $2\,$   $\,$  support the relative market values. Viewing is

3 the most recognized measure of value with regards

to television programming in the marketplace.

Viewing is the currency of the

6 industry. Mr. Lindstrom's testimony in this

7 proceeding and his testimony that was

8 incorporated into the records of this proceeding

9 is very clear that CSOs, SSOs, television

10 stations all manners of platforms across the

11 board use Nielsen data.

They use Nielsen data to make business

13 decisions. This -- his testimony was confirmed

14 most recently by Mr. Sanders. It was confirmed

15 also by Ms. Berlin, formerly of --

16 JUDGE STRICKLAND: Mr. Olaniran, are

7 you making an argument that even assuming

arguendo that there's a problem or defects in the

Nielsen data, that the very fact that the

0 industry utilizes that data even with its defects

21 is alone a sufficient basis for us to rely on the

22 Nielsen data?

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                MR. OLANIRAN: I think it's a matter
    of context, Your Honor. As I think Mr. MacLean
    alluded to this, there's a mass -- we have mass
    quantities of quantitative data in this
    proceeding.
                I have never been involved in a
    proceeding where the data is perfect. In truth,
    if it was perfect, we wouldn't need
     statisticians. So, the question really is given
    the data is not perfect, and I don't think there
    will ever be so-called perfect data --
11
                JUDGE STRICKLAND: I'm sorry. My
12
13
    question is -- I hate to sound philosophical, but
    it -- it is evidentiary in nature, which is that
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15
    -- do -- is the question of whether the data is
    imperfect or not, or whether it's true and
16
17
    perfect or not, a completely separate question
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which is because we use sweeps data from '00 through '03, and there are certain limitations with that data because they don't go out to overnight. So certainly, you have to think, "Well, okay, how do you enhance the data?" That's the direction that we went. realizing that data -- and realizing that we were going to be criticized for it. So, that's the direction we went. So, I would expect in the marketplace, in a business transaction, if one of 10 the sides presented Nielsen data and the other 11 12 side challenged it on one basis or another, they

between the two parties to the extent that have 14 issues with the data. 16

would have to be mistaken to bridge the gap

I don't know if that answers your question. JUDGE STRICKLAND: Yes, thank you. 18

MR. OLANIRAN: Again, I think in terms of the evidence that we have, I -- I was saying 20

21 that we believe that it would make no sense to try to value television programs without having

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13

valued properly or accurately, but that's how the marketplace does it.

according to your presentation, from the question

In other words, we're looking at the

of whether or not the industry uses it.

marketplace. In the marketplace, things get

valued all the time, and they may or may not be

Is it your argument that if -- if

commercially in the television data Nielsen is relied upon that presents a separate argument as

to why the Nielsen data should be relied upon by us. Separate and apart from many of the

statistical arguments that have been made.

MR. OLANIRAN: Well, the reason I'm a

little bit hesitant is that we have a custom

11 analysis, which is not necessarily the way it is

12 used in the marketplace, but certainly

13 conceptually viewership is at the top of that --

14 philosophically at the top of the heap.

So, the question is what evidence of 15 16

viewership do you have? And certainly, I 17 imagine, even outside of this contest, if you

18

have viewing or evidence of viewership, and if

19 you think there are deficiencies in that -- in

viewership in the Nielsen data, the question then

21 is what can you do to correct it, which is

22 precisely the path we took in this instance, some sense of, in relative terms, whether people

are watching those programs. It just does not

even comport with the invention of television

itself because television of course was created

so people can watch programs.

So, any conversation, any construction

of value has to start with whether people watch.

If people like programs, they will watch. If

they want to watch TV, they will subscribe. If

the CSOs put on good programming, subscribers

will subscribe and if they maintain good

12 programming, subscribers will be retained. It

13 really is that simple.

14 So, for that reason, we believe that, and according to Dr. Grav. because of the program 15

supplier categories, we're talking about 16

17 homogenous goods. Viewing is more particularly

18 relevant for this determination. So, the question

19 then goes to what were we just talking about?

The next question then goes to what we

21 were talking about, about if you have

deficiencies in data. Well, again, I don't

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expect -- I have never been involved in any

- endeavor that is heavy on quantitative data and
- that has perfect data.
- The question is what do you make of
- what you have available to you? And whether or
- not -- the question that -- the endeavor should
- not be whether or not you have perfect evidence.
- The issue should be whether or not the evidence
- you have available is reasonable and sufficiently
- 10 reliable to report the standards that you have to
- 11 apply to allocate them.
- 12 We believe that Dr. Gray's evidence,
- 13 along with other related analysis, answered that
- question. Recognizing the limitation of the 14
- 15 Nielsen data, he endeavored to create an analysis
- 16 that fully recognizes and at least tries to
- 17 rectify as much as possible of whatever
- deficiencies may be viewed with respect to the
- Nielsen viewing data.
- 20 So, he takes the '00~'03 data, and
- 21 then performs a correlation analysis between
- distant viewing and local ratings, and following

- what do you do if someone is watching another
- station?" I gave the example of one subscriber
- household with nine channels.
- If you have more channels than you
- have eyeballs, someone is not -- there are
- channels that are not going to be watched. It
- doesn't make the viewing data bad. It just makes
- for observations as Dr. Grav said. It makes for
- more observations and conclusions from the
- aggregation of those observations. 10
- So, I think Dr. Gray referred to 1.8 11
- 12 million observations that he relied upon to 13
  - estimate.
- 14 But in the end, whatever you think of
- zero viewing, whether you think it's good or bad, 15
- 16 the very problem that Dr. Robinson complained
- 17 about was rectified by the regression analysis,
- 18 which actually projects, across the board,
- viewing for every single quarter hour in all of
  - the years at issue.
- 21 Now, Dr. Robinson raised the issue of
- 22 why didn't Dr. Gray go back to use the sweeps

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- that determination engages in a regression analysis using local ratings, time of day,
- distance values and program times, variables and
- which is the basic predictive model with respect
- 5 to distant viewing for quarter hours.
- Now, without question, and this is not
- the first time this has been raised. The
- questions were raised about the so-called zero
- 9 viewing. And you recall Dr. Robinson not only
- 10 questioned the existence of zero viewing as bad,
- 11 she also challenges Dr. Gray's predictive model
- 12 because it predicts '00 through '03 data -- I'm
- 13 sorry, viewing.
- 14 Well, with respect to the zero
- 15 viewing, you recall my statement. There is no
- industry standard for zero viewing. She could 16
- not tell us exactly what would be considered 17
- high: what would be considered low or because the 18
- 19 average of facts doesn't exist.
- The reason it doesn't exist is because
- 21 of the nature of distant viewing. Some of the
- other questions I asked her about were, "Well,

- data for the '00-'03 period? Why didn't he use
- the actual viewing data? Of course if he does
- that, that takes you back to the problem in the
- first place, which is the zero viewing, which is
- -- so, you can't have it both ways.
- You can't complain that you have
- zeroes and again complain about an attempt to
- satisfy the zero viewing -- the perceived zero

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- So, that's not a legitimate argument.
- I think you -- and I think with respect to all of 11
- 12 the other issues that Dr. Robinson raised, the
- reality is Dr. Gray was able, in our view, to 13
- 14 satisfactorily explain this. And some, like the
- 15 omission of indicative data for 2000, for
- 16 example, I thought he was able to explain how it
- happened. It was not out of an intentional 17
- 19 year, and that's what happens.
  - After the criticism surfaced, he went

error. It was just he let the computer pick a

- 21 back and tested his data, and the results were
- inconsequential, which then brings me to the

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credibility of the witnesses.

2 Three main witnesses: Dr. Gray, Mr.

- 3 Lindstrom, whose testimony was received by
- stipulation of the party. Dr. Gray was, I will
- 5 say, the most critical of all the witnesses
- 6 because he referred everything together. His
- 7 record and his CV is -- he's well educated and
- 8 well-respected in the field. He is experienced.
- 9 Most importantly, he was articulate on
- 10 the questions that both counsel asked him, and  ${\tt I}$
- 11 think all of the questions that came from the
- 12 churches. There's no question he has great
- 13 command of not just the data, but also the
- 14 statistics themselves.
- I think I've learned more words today
- 16 than I've learned probably the last year. I know
- 17 what bootstrap means.
- Now, with respect to Mr. Lindstrom,
- 19 the incorporated testimony and his testament from
- 20 this proceeding are pretty extensive not just in
- 21 the way that Nielsen gathers data, but on the
- 22 specific issue of zero viewing.

- 1 expert in the cable industry. He is not a
- 2 statistician or an economist.
- 3 So, with respect to whatever opinion
- 4 or views he may have about what distribution
- 5 allocation should be undertaken by the judges,
- 6 his opinions should have no weight. I'd also
- 7 like to remind the judges that Mr. Galaz has
- 8 already been found to have lied in this
- proceeding, and it is our view that any testimony
- 10 that he has put forth in this methodology should
- 11 be viewed in the context of his conduct in the
- 12 earlier part -- in the phase I part of the
- 13 proceeding.
  - Now Dr. Robinson. With respect to Dr.
- Robinson's presentation, Dr. Robinson essentially
- 16 employs a methodology that has been around for a
- 17 while. Give me one second. I'm going to read to
- 18 you from the 1997 phase II proceeding. I'm
- 19 reading -- it's 66433 Federal Register, and I'm
- 20 at page 66452.
- It reads, "In sum, IPG focuses on four
- 22 elements to determine program value: The number

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I won't regurgitate what he said on

- the stand in '00-'03 where he testified, but he
- 3 was pretty articulate on all of these issues and
- 4 it is actually quite a surprise that it has shown
- 5 up again as an issue in this proceeding. We
- 6 thought Mr. Lindstrom was very articulate on why
- 7 zero viewing is not an issue, why zero viewing is
- 8 actually an integral process of a survey and why
- 9 it does not make the Nielsen data any less
- 10 reliable.

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- With respect to Ms. Saunders, Mr.
- 12 Saunders, who was charged with the MPAA relative

refute IPG's claim that with all the experience

- 13 distribution process, you -- she was able to
- 15 with the distributors in Europe and in Canada,
- $\,$  16  $\,$   $\,$  she was able to disclaim that in Canada and in
- 17 the distribution process that they don't use --
- 18 they don't use viewing.
- Now, with respect to IPG's
- 20 presentation, Mr. Galaz had testimony but he
- 21 really did not articulate any economic viewing
- 22 nor is he qualified to do so. He is not an

- of distance subscribers capable of receiving the
- 2 program during 1997, the cable license royalties
- 3 generated during '97 that are attributable to
- 4 broadcast in the program, the time placement of
- 5 the broadcast and the length of the broadcast.
- Now, if you go to the '00-'03
- 7 proceeding, it is conceptually the same thing.
- 8 So, it is not as if -- and if you go the -- if
- 9 you go to this proceeding, you will see similar
- 10 language in -- in Dr. Robinson's testimony.
- 11 So, '97 page 2, '00-'03 page 2, Mr.
- 12 Galaz proposed that concept. So, when Dr.
- 13 Robinson joined the team, she didn't come up with
- 14 an original concept. This is a concept that's
- 15 now being rejected; twice when Mr. Galaz proposed
- 16 them, once in the '99 proceeding when Dr.
- 17 Robinson proposed them, and hopefully the same
- 18 will apply in this proceeding when Your Honors
- 19 have had a chance to value the evidence.
  - Conceptually, they're not different.
- There may have been some tweaks there and there.
- 2 But those four metrics are the cornerstone of

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IPG's methodology. They haven't changed since the '97 phase II proceeding, and they're not changing now. Now. I would get into details of what is wrong with each metric that she uses, but I think the record in this proceeding is very clear on that, and as a matter of fact, the record in the '98 and '99 proceeding is very clear on that. But generally speaking, the three --10 the three metrics that she uses to estimate the 11 relative share completely discount actually 12 viewing, even though she herself testified to the 13 importance of viewing. What's most remarkable though about Dr. Robinson's position is that she could not 15 16 even really get completely behind her own 17 testimony. You may recall that I asked her about 18 whether or not you could rely exclusively on any 19 one of the metrics. I think yesterday under 20 questioning my Judge Strickler, I think she was 20

us went home tonight and spoke with our families, and started out by saving. "It's really quite simple what I've been doing this last week," it would be a lie. At the same time I think that the choice I have before you can be bracketed as a philosophical one between methodology based upon ratings - and notice I said ratings, not viewership - or multi-varied criteria focusing mostly on subscribership modified by duration of programs and by day part viewing, which has a viewing component that is not ratings. 12 Ratings of the currency of the 13 14 television industry is what Mr. Olaniran said, 15 and I think that was true for several decades. 16 After all, when the industry first started, 17 paying for TV meant you went to Sears and bought 18 a TV, came home, plugged it in and turned it on. You didn't pay for it. It was on the 19

air. It was free. The reason why that was is

because it was funded by advertising. It was a

creature of advertising. TV existed as a medium

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                 I think her response was, "Well, I
     think you can rely on one of them taking into
     context the other two." I have no idea what that
     means. I'm not sure that if you go back and read
     the record that you would get any clarifying
     response.
                 JUDGE BARNETT: Two minutes, Mr.
 9
     Olaniran.
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                 MR. OLANIRAN: Two minutes? So. what
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     is clear, however is many times during her
12
     testimony when she was being directed by her
13
     counsel and on cross-examination by me. she was
     very clear that Dr. Gray's analysis is a
14
     reasonable way to establish relative market
15
16
     value.
17
                 I thank Your Honors for their time,
18
    and we would be requesting that a share of the
     '00 through '09 cable and '00 through '09
     satellite as set forth in Dr. Gray's testimony.
21
    Thank you.
22
                 MR. BOYDSTON: Well, I think if any of
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moving to towards time of day as the most

up again and she kind of changed her mind.

reliable metric, but then again the question came

of advertising, and therefore ratings were Ratings continue to be seen as paramount for assessing the value of advertising on television. However, that started to change in the 1970s and '80s, when cable and then satellite television became widespread, because then the economics of TV started to change. It wasn't just dictated by advertising revenue. It 10 started to also be dictated by subscription fees coming to cable companies and satellite 11 12 companies. 13 That has grown so much that now for a big company like Direct TV, its advertising 14 revenue, in the millions of dollars, is 15 relatively -- it's not relatively. It is 16 17 insignificant compared to its subscribership revenue. Same thing for the other big companies, 18 as you heard Mr. Egan testify. 20 So, from a starting point, I think it 21 is important to recognize that while ratings have

been something that -- that you and others have

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naturally gravitated to to try and come up with a reliable metric, I think the time has come to call that into question.

As I told you at the beginning of this, we have brought evidence that is new and unusual, and that hasn't been presented before that goes right to this question. I'll observe you heard almost nothing. I think maybe it was nothing during other closing arguments about the testimony of Michael Egan. 10

11 Michael Egan is the person you've been 12 specifically asking to hear from in several 13 decisions, and you came in here and he said, with

14 no bones about it, that ratings were not important to a CSO or an SSO.

16 I might add that his view was 17 essentially backed up, lock, stock and barrel, by Toby Berlin. Although she said, "I used ratings." She used local ratings, but more

importantly, she also explained that to start 21 ratings, in her own experience, she had to choose then deems it out to its subscribers. Our argument is a good metric for trying to figure

to our clients by a cable system operator, who

out what the owners of this content should

receive should look at how many subscribers are

paying the CSOs, who are then paying the compulsory license for the stations that run

these particular television shows.

I think that makes a lot more sense than trying to just contort ourselves into this ridiculous position to try and say, "No, really. It is all backwards." It is really the ratings the television show gets that the CSOs are actually interested in.

Judge Strickler asked a question of Mr. Egan about, "Well, what if you did get these ratings?" He said, "Well, I'd look at them. I might be interested." Judge Strickler said, "Well, what if you had two different stations, and it was a decision between the two of them. Wouldn't you be more interested in high ratings 21

on a program in one station versus low ratings in

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a program on another?"

have much in the way of ratings because they had a real small niche audience; her explanation about the Japanese television show.

to pay a license on television shows that didn't

She admitted, "Yes, it didn't have much value." You know, it didn't amount to much.

I said, "It didn't have much in terms of

ratings." At the end of her testimony. And she

said, "No, it didn't, but they cancelled it and

they brought it back despite the fact that its

10 ratings were minuscule or meaningless."

11 Why? Because it rounded out their 12 package and it meant that they could keep

subscribers that they would otherwise lose. And 13

14 so, for Toby to learn in that situation ratings

15 were not important. But what was important was

16 maintaining subscribers. That is why our

17 management doesn't rely on ratings. Our

18 methodology focuses on how many subscribers are

receiving the content that is owned by our

20

21 So, our clients own these TV shows, 22

and they get picked up without any money coming

And Mr. Egan didn't exactly agree. He

said, "Well, I'd look at it. It'd be a factor."

But still in all his years of experience, he has

never seen anyone in that position make a

decision on that basis.

Again, what we're trying to do here is we're trying to recreate an artificial situation

in which we replicate the making of that

decision. Well, facts are stubborn things, and

the facts before you now, and the evidence before

you now is undeniably that cable system operators

13 and satellite system operators do not pay

attention to ratings. Whether a show is highly 14

rated or not highly rated does not dictate their 15

16 decision.

12

Their decision is dictated by its 17 effect on their subscribers. Will they keep 18

19 them? Will they get more? Will they not lose

them? So, it makes sense I think to base

distribution on subscribership. That is what

this methodology does.

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Yes, it is similar. It is not exact,
     and Dr. Robinson explained it is not exactly the
     same in its nuts and bolts as prior methodologies
     offered by IDG. But no doubt it is similar. The
     other piece of evidence is low and behold, it is
     also similar from the evidence before us to what
     they do in Canada and Europe.
                 Now, we can make all the jokes we want
 9
     about Canadians and Europeans, but the fact of
10
     the matter is we're not talking about a bunch of
     goofballs here. They have chosen to go with
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     these type of metrics. Perhaps for the very good
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     reason that they know that CSOs don't look at
     ratings. Instead they look at subscribership.
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15
                 Now, on that subject, the fact of the
     matter is you all have in the record Article 8 of
16
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     the CCC distribution methodology. You can all
     read it on your own, and you can go back and you
     can read Ms. Saunder's testimony about it. You
     can go and you can read the declaration filed by
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Now, I'll let you make your own

Lucy Medeiros.

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271 strong enough memory of that. They may. They may not. I have to re-read those materials. JUDGE FEDER: If that's something you could point to in your plans. MR. BOYDSTON: Yes. Thank you. JUDGE STRICKLAND: Following up on Judge Feder's question, are you proposing what the CCC does as evidence of foreign law, or just some -- a particular activity of a commercial or non-commercial, non-profit organization in 10 11 another country? MR. BOYDSTON: I think it's the 12 13 latter. They're not an element of the Canadian government. So, I think it would have to be the 14 latter. But what I'm really presenting it as is 15 16 an example of what another entity does.

They're trying to distribute these

copyright royalties on an equitable basis that

they think makes sense, and they seem to think

that makes sense. Now, it doesn't mean you have

to do it, but after all, especially in the law,

we have a long history of looking at empirical

practice and valuating it, and it may have some

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decision, but the -- the words speak for themselves. JUDGE FEDER: Mr. Boydston, is it your contention that CCC is determining relative market value? MR. BOYDSTON: I think that's what they are attempting to do because they're attempting to do exactly what you're attempting to do here, which is distribute --JUDGE FEDER: Clearly, they're distributing money. They're serving a similar 12 function. 13 MR. BOYDSTON: Right. JUDGE FEDER: But we are distributing 15 money on the basis of relative market value. Is 16 there anything in the record that says that is 17 what CCC -- that is the basis for distribution by 18 CCC, or AGICOA for that matter? MR. BOYDSTON: I can't say that I know 19 that, and I can't say that I know it one way or 20 21 the other. I know they use the term

remuneration, but I'm not -- I don't have a

persuasive impact. Maybe it won't. I don't see a lot different north of the border than down here that would suggest that there's good reason to doubt it. JUDGE STRICKLAND: Maybe they should be doing it the way we do it. MR. BOYDSTON: Maybe so. Maybe so. But I just point out that they're doing it the way they're doing it, and you're right; maybe they should be doing it the way we're doing it. Although, then how do you argue with Mr. Egan, who says, "Okay, well, you can do it by ratings, but that's just not what we actually base our decision to give you this money in the first place in the terms of the copyright license." So, you know, you can choose to not

put much stock in Mr. Egan's testimony, or Ms. Berlin's, but it is there. It's there.

separate questions though.

JUDGE STRICKLAND: I think they're

MR. BOYDSTON: Separate question

Neal R. Gross and Co., Inc. Washington DC

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being, okay, yes; that's what they say. But then

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3 JUDGE STRICKLAND: What is the

- standard by -- it's clear we apply a relative
- marketplace standard. It's not clear to me based
- on anything I've seen so far that either CCC or
- AGICOA applies a relative marketplace standard.
- You've raised the term equitable
- 9 remuneration. It's not clear to me that's the
- 10 same thing.
- 11 MR. BOYDSTON: Fair enough. I don't
- 12 know that it is different. I mean I -- but
- that's -- that's -- that's for you to --
- JUDGE STRICKLAND: Persuade us one way
- 15 or the other, based on the evidence during the
- 16 proceeding.
- 17 MR. BOYDSTON: I think that it is
- 18 clear that all the problems you've been presented
- 19 with, and perhaps your predecessors too, have all
- 20 had problems going back to the decision on the
- '97 proceedings. The CARP lambasted the MPAA's 21
- 22 methodology, but it was also critical on IPG's.

- proceeding and in other proceedings: it measures
- the wrong thing. And that is confirmed by Mr.
- 3 Egan and Mr. Berlin.
- With regard to the CDC, well, with
- regard to both CDC -- excuse me, SDC. With
- regard to the SDC, one of their problems is they
- did base their calculations on the CDC data,
- which has problems with it. Mr. Galaz pointed
- them out. Ms. Martin came in here and testified
- about it.
- But as you recall, and as you saw from
- 12 the graph, Ms. Martin identified problems and
- errors, not just in Mr. Galaz's critique of her.
- but errors that the CDC had made on its own.
- including a whopper of 200 million broadcasts.
- 16 That's a big problem.
- 17 Excuse me, 200 million subscribers, I
- 18 believe. I'm getting mixed up now. But it was
- 19 the 200 million problem. Mr. Galaz also went
- 20 through and recalculated and found that even
- 21 after he had made adjustments for a number of Ms.
- 22 Martin's statements about his inaccuracies, there

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- In the proceedings that you have all issued
- decisions, you've been critical of both
- methodologies as well.
- The fact of the matter is that zero
- 5 viewing continues to be a problem, continues to
- 6 be acknowledged as a problem by everyone except
- Dr. Gray, and yet I understand in the prior
- proceedings your conclusion was, "Well, there are
- 9 problems, but we have to choose a methodology.
- 10 We are going to have to choose the best one at
- our disposal." 11
- 12 I think it's a little different this
- 13 time around. That problem remains, no doubt.
- 14 But on top of that, now you have the additional
- 15 evidence that the people who pay these licenses
- 16 don't look at ratings in the first place.
- 17 So, not only does ratings in terms of
- 18 reliability due to a lack of data points, which
- 19 manifests itself in high level of zero viewing,
- 20 sometimes absurdly high levels of zero viewing.
- In addition to that, it is measuring a long 22 thing. Just like the CARP concluded in the '97

- were still a lot of inaccuracies left over.
- Again, many of those were acknowledged by Ms.
- Martin herself.
- That's never been straightened out,
- and that is one of the important predicates for
- Dr. Erdem's analysis, and therefore, it remains
- flawed and a problem.
- 8 Dr. Erdem's attack on the IPG using 99
- 9 percent of the satellite data and satellite
- 10 numbers, and also by Dr. Gray? Frankly, I just
- 11 don't see how it makes any sense at all.
- The fact of the matter is that if 12
- 13 you're using 99 percent, why use a random sample?
- 14 Why not just use the 99 percent, which is very
- close of course to 100 percent. 15
- Dr. Gray said, "Well, part of the 16
- problem is that down at that lower end, you're 17
- 18 going to get kicking out more small satellite
- 19 stations than big ones, and that's going to be a
  - problem.
- 21 However, on the stratifying basis,
- 22 that's going to be at the bottom. So, the number

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- that you're not picking up is going to be
- minuscule. So, I don't think that makes any
- With regard to -- excuse me. Again,
- 5 with regard to the SEC methodology, again,
- they're using this 1999 February data to
- basically take that, apply to other data, to
- predict ten years. Now, it was one thing when
- they were doing that just for '99 in the prior
- proceeding that we all had: '98-'99 devotional
- 11 cable.
- 12 But now, they want to stretch that all
- 13 out to 2009. I mean flat footed that looks
- 14 crazy. I know we have experts that say
- otherwise, and Dr. Erdem, but we had experts who 15
- 16 questioned as well. That includes not just Dr.
- Robinson, but also in part Dr. Gray.
- JUDGE BARNETT: Three minutes, Mr.
- 19
- 20 MR. BOYDSTON: I think I'm just about
- 21 done, but I always like to take one last glance
- at things. Again, I think that really what

- you have to do your proposed findings. Mr.
- MacLean?
- MR. MACLEAN: With respect to IPG's
- written objections, if they actually file a
- motion to strike, the SDC have already filed
- their opposition. I believe MPAA also already
- filed its opposition.
- So, in terms of written objections
- that have already been made, the only remaining
- opposition would be IPG's opposition to our 10
- written objections and MPAA's written objections. 11
- I just want to add to that though IPG
- has submitted corrections to a large number of 13
- its exhibits. I expect that we are at least 14
- going to evaluate whether to file an additional
- 16 written objection on the basis of their seriatim
  - filings of these -- of these -- of these
- exhibits, and perhaps MPAA might want to evaluate
- that as well. So, we might also need a date for
- 21 We don't need a lot of -- at least
- from the SDC's perspective, we don't need a lot 22

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you're looking at here is a paradigm choice, and 1.

2

- you've been asking to hear from a CSO. You heard
- from two of them. Well, actually I guess really
- Ms. Berlin came from the satellite side of
- things, but they both told you what they told
- you, which is that they never do anything.
- They never pay this license based on
- ratings. I think that is an important fact that
- 9 can't be marginalized or put aside, or ignored.
- 10 JUDGE BARNETT: Thank you. Counsel,
- 11 the stipulation that we approved regarding the
- time table going forward, provided that you would 12

My feeling at this point is perhaps

- file proposed findings and conclusions on May 13
- 18th, and reply to those on June 17th. 14
- 16 that May 18th date would be a good date for
- 17 responses to all of the pending written
- objections, and June 17th would be the date for
- 19 proposed findings and conclusions.
- 20 Well, we will take replies. I'm
- 21 trying to -- I'm trying to calculate how we're
- going to get your responses to merchants before

- of time for that.
- JUDGE BARNETT: We anticipated that
- there would be written objections to the things
- that we took on the fly. The reason I'm
- stammering here is because a week from next
- Monday, we begin five weeks of hearings.
- So, I don't want you to put you under
- pressure to file things if we can't get to them,
- and you can't file your proposed findings and
- conclusions until we do have time to get to your
- 11 objections and responses and replies.
- 12 So, I'm going to put the ball back in
- 13 your court. As I said, I think it'll be easier
- 14 for you and for us if you come up with a proposed
- 15 schedule for when motions need to be filed, when
- 16 responses for everybody need to be filed, when
- replies can be filed. 17
- 18 Then if you want to do as you did in
- 19 the past, if you want to propose a stipulation
- 20 that says so many days after our ruling on the
- 21 motions will be the time for proposed findings
- and conclusions, that's fine as well. But as I

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said, we are going to be, as they say in Texas, just covered up from now until after Memorial 3 MR. BOYDSTON: Okay, I was just about 5 to ask when the termination was supposed to be as 6 to how we should time this. JUDGE BARNETT: The end of May. MR. BOYDSTON: End of May? All right. JUDGE BARNETT: So. I don't know if 10 you follow this, but it's the webcaster. So, it'll be -- it'll be a fun one this time because 11 12 Pandora decided to come in and play this time 13 instead of doing private deals. So, we will be busy, I think. 14 15 MR. MACLEAN: Now, understanding that the reason for spacing these things out, as I 17 understand it, is so that you can rule on objections before we file our written findings of 19 fact and conclusions of law. Do you have an 20 estimate as to how long you would need to do that

after we have completed briefing on the

MR. MACLEAN: That makes sense, Your 2 Honor. Thank you. MR. BOYDSTON: It makes sense for us to try and get the briefing. There's -- the briefing could be done but such that you could review it at the beginning of June. JUDGE BARNETT: Right. So, if you can time your new motions, responses and replies so that everything is fully briefed and ready for 10 decision at the beginning of June, all the better. And that seems I think reasonable, given 12 that this is what, the 17th of April? It gives 13 you 45 days to get that all done. Is there anything else for the good of the order? Counsel, as you have done in the 16 past, we do want you to file an electronic set of admitted exhibits. I don't think we had an issue of redaction this time around. 19 Ms. Whittle will be in touch with you,

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1 JUDGE BARNETT: No. I don't. That's why I can't give you an estimate. We will certainly address them as quickly as we can. We'll be waiting for proposed findings and conclusions from the webcasters for about a month after the hearing is over. So, that might be a good opportunity. So, just try in there, and we'll try 8 9 to rule during that time frame when we're waiting 10 for their findings. 11 MR. MACLEAN: I'm just trying to 12 figure out how much we should space our deadline 13 to file findings of fact and conclusions of law 14 after the briefing is completed on the objections. 15 JUDGE BARNETT: I was thinking that 16 17 you would just make it 30 days, or 45 days after 18 we give you the ruling and the date in precise. 19 other than -- I think you did that before so many days after our ruling, and that seemed to me to 21 be the best way to do it. That way, we're not locked in, and neither are you.

outline within each document, but each exhibit

but we do want those in searchable PDF. We want

each party's exhibits to be all one document with

bookmarks. You don't have to bookmark the

2 number needs to be bookmarked.

3 MS. PLOVNICK: Would you like us to

wait until after your ruling on all the

5 evidentiary issues to submit that so it can

6 incorporate them? You say you don't want us to

7 submit them now and then again later?

JUDGE BARNETT: That makes such good

9 sense. It also saves Ms. Whittle from about four

10 days' work of having to go through them, and then

11 toss them out and reorganize them, and renumber

12 them. So, let's do that.

MR. MACLEAN: Your Honor, I think

14 there would be issues of redaction with respect

15 to some of the written testimony, which

16 incorporate tables that come from the exhibits.

JUDGE BARNETT: With -- that would

18 depend on our rulings. So, I understand --

19 MR. MACLEAN: On the rulings that

20 you've already made.

JUDGE BARNETT: Right, okay.

MR. MACLEAN: Dr. Robinson and Dr.

21

22

objections?

285 Gray. JUDGE BARNETT: Correct. Anything else then? I'm not going to say the record is closed because it isn't. But I assume if we receive all of your materials, then the record would be closed but for proposed findings and conclusions which we will be happy to accept at some point later in the process. Thank you all. This was grueling. Mr. Olaniran, believe me, I know how difficult 10 this was because we were on the other end of it, 11 12 and we don't have staff. So, I mean that's no offense to Mr. Spasser (phonetic) who has been 13 14 diligent sitting at the back of the room, but we don't have expansive staff. 15 16 So, it has been very difficult for you 17 all, as I said. You met our expectations. You 18 rose to the challenge, and I think we're going to get this done. We are attempting to get no more than -- I would like to do annual distributions but it just doesn't make sense. 22 For one thing, the filings don't come

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in until July. Then you have to do a notice period, and then blah, blah. But we are trying to keep them to smaller groups and to keep more current, just so that copyright owners get their money. So, anything else then? Thank you (Whereupon, the above-entitled matter went off the record at 4:27 p.m.) 10 11 12 13 14 15 16 17 21

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# <u>C E R T I F I C A T E</u>

This is to certify that the foregoing transcript

In the matter of: Distribution of 2004-2009 CRF and

1999-2009 Satellite Royalty Funds

Before: LOC

Date: 04-17-15

Place: Washington, DC

was duly recorded and accurately transcribed under my direction; further, that said transcript is a true and accurate record of the proceedings.

Mae 1 Gurs 8

Court Reporter